



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO24532**

Purchase Order Date 6/10/2014

PO Print Date 6/10/2014

Page Number 1 of 7

Order From :

VU-BEA001

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Contact Name

Vendor Phone 305-925-2600

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

M129472

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS28775-008 AS PER DWG D2651 REV. B B120110	O RING	6/12/2014 Yes 6/12/2014		1,000.00 Each	\$0.08	\$80.00
						Line Total:	\$80.00
2	MS20600-AD4W5 <i>WA</i>	Blind Rivet	6/12/2014 Yes 6/12/2014	FN	500.00 Each	\$0.17	\$85.00
						Line Total:	\$85.00
3	MS20601-AD4W2 <i>91310</i>	Rivet	6/12/2014 Yes 6/12/2014		100.00 Each	\$0.15	\$15.00

Note:

6/10/2014



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88289 EXPEDITE WAY
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1270 ABERDEEN
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Currency

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FOB

FCA - (Free Carrier)

Line Total: \$15.00

4 MS20615-4M18

Rivet

6/12/2014

125.00

Yes

Each

\$0.45

\$56.25

Line Total: \$56.25

5 MS20822-3D

ELBOW

6/12/2014 FN

6.00

Yes

Each

\$6.20

\$37.20

Line Total: \$37.20

6 MS21042L4

Locknut

6/12/2014 FN

1,000.00

Yes

Each

\$0.16

\$160.00

Line Total: \$160.00

Note:

6/10/2014



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88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

1270 ABERDEEN
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FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

7	MS21042L5	Nut	6/12/2014	FN	500.00	✓	\$0.45	\$225.00
			Yes		Each			
			6/12/2014					

51207

Line Total: \$225.00

8	MS21043-3	Nut	6/12/2014	FN	500.00	✓	\$0.38	\$190.00
			Yes		Each			
			6/12/2014					

306

Line Total: \$190.00

9	MS21047-3	Nut Plate	6/12/2014	FN	200.00	✓	\$0.47	\$94.00
			Yes		Each			
			6/12/2014					

305

Line Total: \$94.00

10	MS21047L06	Nut Plate	6/12/2014		20.00	✓	\$0.75	\$15.00
			Yes		Each			
			6/12/2014					

51305

6/4/13

Note:

6/10/2014



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Page Number 4 of 7

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B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

305-925-2600

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Total: \$15.00

11 MS21047L08

Nut Plate

6/12/2014

20.00

Yes

Each

\$0.75

\$15.00

Line Total: \$15.00

12 MS21059L3

Nut Plate

6/12/2014 FN

100.00

Yes

Each

\$0.39

\$39.00

Line Total: \$39.00

13 MS21059L3K

Nutplate

6/12/2014

500.00

Yes

Each

\$0.67

\$335.00

Line Total: \$335.00

Note:

6/10/2014



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PURCHASE ORDER

Purchase Order ID **PO24532**

Purchase Order Date 6/10/2014

PO Print Date 6/10/2014

Page Number 5 of 7

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VU-BEA001

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88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

305-925-2600

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

14 MS21069-04

ANCHOR NUT

6/12/2014

20.00

\$0.85

\$17.00

Yes

Each

6/12/2014

Line Total:

\$17.00

15 MS21069L3

ANCHOR NUT

6/12/2014 FN

50.00

\$0.35

\$17.50

Yes

Each

6/12/2014

Line Total:

\$17.50

16 MS21209C6-10

Heli Coil, screw locking,
red

6/12/2014

10.00

\$1.50

\$15.00

Yes

Each

6/12/2014

Line Total:

\$15.00

Note:

6/10/2014



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FedEx PI collect

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Currency

USD

FOB

FCA - (Free Carrier)

17	MS27039-5-12	Screw	6/12/2014	FN	50.00	✓	\$1.07	\$53.50
	288		Yes		Each			
			6/12/2014					
Line Total:								\$53.50
18	NAS1515H8	Washer	6/12/2014		50.00	✓	\$0.30	\$15.00
	27		Yes		Each			
			6/12/2014					
Line Total:								\$15.00
19	NAS1611-010	O-RING	6/12/2014		400.00		\$0.35	\$140.00
			Yes		Each			
			6/12/2014					
Line Total:								\$140.00
20	NAS509-3	Nut	6/12/2014	FN	20.00	✗	\$1.70	\$34.00
	57270		Yes		Each			
			6/12/2014					

Note:

6/10/2014



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Ship Via: FedEx PI collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Total: \$34.00

21 71401-45

PROCUREMENT
QUALITY CLAUSES

6/12/2014

1.00

\$0.00

\$0.00

No

6/12/2014

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A014 SHELF LIFE CONTROLLED MATERILA 70%; SHELF
LIFE REQUIRED UPON RECEIVING

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Line Total: \$0.00

PO Total: \$1,638.45

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 6/10/2014

Date
3/14/12
07:42
Ship#: 057977

Sold BE AEROSPACE INC
To PO BOX 025263
MIAMI, FL 33102-5263

Ship B/E AEROSPACE
To 9835 NW 14TH ST
MIAMI, FL 33172

Order No.	Order date	Cust No.	Loc rep	Sls No.	P.O. No.	Job No.	Ship Via	Col Ppd
067979	5/05/11	552550	29	999			Not on file	COLLECT
					OYP712			Collect
Order qty	Qty ship	B/O qty	Item description	Number / Level	UM	Need Date	Summ Qty	Item Loc
97653	324982	056068		MS21042L5	EA			29-Loc
97653			M52LF3324-5			(1/17/12)		

*** Shipment Summary: 20 Cartons 1 Pallets ~~556.62~~ Weight
560 #

PERMASWAGE

PERMASWAGE - Nelson Aerospace

A Designed Metal Connections, Inc. Company

10310 Norris Avenue

Pacoima, CA 91331

Ph: 818-686-0900

Fax: 818-686-0181

Pack Slip:**53563****Sales Order: 30390**

Page: 1 of 1

**Customer
Packing Slip****Ship To:**

B/E AEROSPACE CONSUMABLES MANAGEM
9835 NW 14TH ST
MIAMI FL 33172
USA

Verify AES requirements prior to shipment.

Sold To:

B/E AEROSPACE CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI FL 33172-2756
USA

Verify AES requirements prior to shipment.

Fax: 305-507-7192

Ship Date: 2/17/2014

Ship Via: FEDEX GROUND

F.O.B.: EX WORKS

Cust P.O.: 0RVP31

Salesperson: JIM THOMPSON

PO Line	Planned Qty	Shipped Qty	Back Order Qty	Part Number Description	Rev	Lot Number
------------	-------------	-------------	----------------	----------------------------	-----	------------

FEDEX GRD # 0331-0149-0

RELEASE # 8K6J0RVP31
2,500

2,231

269.00 MS20822-3D

F

22890

ELBOW

Sale Order / Line / Release: 30390 / 1 / 1

Customer PO Number: 0RVP31

Certificates Required:

Standard Certification: Yes
Full Certifications: No

First Article Inspection: No
Chemical/Physical: No

Material Certificate: No
FAIR per AS9102: No

1 Box 12x12x12 13 lbs
2 Boxes 15x15x10 17 lbs ea

AN, MS, AS, NAS and other industry standard parts controlled by ECCN 9A991 and HTS 8803.30.00.00

Products listed have not been exposed to mercury or mercury compounds during the manufacturing process.

!! MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY PERMASWAGE -NELSON AEROSPACE SALES @ 818-686-0900 !!

WE HERBY CERTIFY THAT ALL PROVISIONS OF THE FAIR LABOR STANDARDS ACT ON 6/25/83 AS AMENDED HAVE BEEN FULLY COMPLIED WITH IN THE MANUFACTURE, PRODUCTION OR PURCHASE OF GOODS LISTED HEREON. ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE. ALL PAST DUE ACCOUNTS SHALL BEAR INTEREST AT THE RATE OF 1 1/2% PER MONTH (18% PER ANNUM).

Certification of Conformance

NELSON AEROSPACE WARRANTS THAT THE ITEMS OF THIS SHIPPER WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM, ACCOMPANYING THE ITEMS OF THIS INVOICE, ARE IN CONFORMITY WITH CONTRACT REQUIREMENTS AND SPECIFICATIONS, GOVERNMENT OR OTHERWISE. NELSON AEROSPACE DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF THE FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF NELSON AEROSPACE IS EXPRESSLY LIMITED TO REPLACEMENT OF ANY ITEM WHICH IS REJECTED BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP. SUCH REPLACEMENT SHALL CONSTITUTE SATISFACTION OF ALL LIABILITY NELSON AEROSPACE MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE OR OTHERWISE, AND IN NO EVENT SHALL NELSON AEROSPACE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, NELSON AEROSPACE MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

Country of Origin: MADE IN THE USA

BY RECEIVING DELIVERY OF THE GOODS COVERED BY THIS PACKING SLIP, BUYER EXPRESSLY ASSENTS TO THE TERMS AND CONDITIONS SET FORTH.


Manager of Quality Assurance or Designee

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9947998293

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
02/08/11	F380062	OVY831			

Line/Rel	Item	/M	Ordered	Qty To Pack
1-1	BAY170 K1000-08		14000	525

C/I: MS21047L08 *Rev. 2* Date: 02/17/11
PO Item #: 1 Date: 02/04/11

*** TSO C-148 APPVD PART. TSO LABEL REQUIRED ***

Lot: M010203-000 COO:MEXICO

Waybill: _____ ECCN: 9A991 Schedule-B Number: 7318.16.0000

The export classification appears above. You are responsible for all related export license requirements.

MFG C OF C CHEM & PHYS TEST REPORTS REQ'
D
DUAL CERT TO NAS680A08 *Rev. 10*
CERT CHARGE ON #1 INVOICE WITH #1

BUYER: CRISTINA SANCHEZ PHONE: 30

Honeywell Source Accepted:

Christy Wiltzer **K352**
Christy Wiltzer *2/8/11*
Date

RMRA # (if app) *N/A*

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 Eagle Products: Cage Code 66778 Rosan Products: Cage code 66778

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9947998293

Page: 2

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B/E AEROSPACE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263
USA

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B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #

02/08/11 F380062 0VY831

Line/Rel Item

/M

Qty Ordered Qty To Pack

5-592-5155

***SHIP FEDEX GRD COLLECT ACCT#0331-0149

-0. IF OVER 150 LBS, SHIP FED EX

NATIOANL (WATKINS), ACCT#018757

**ALLOWABLE SHIPPING TOLERANCE 0%-0%

MUST STATE COUNTRY OF ORIGIN WHERE PARTS
WERE MANUFACTURED ON CERTIFICATION

FOR EACH LOT NUMBER. ALL ITEMS ON THIS P

O MUST BE NEW AND TO THE LATEST REV

MFGS NAME & LOT# MUST APPEAR ON PACKING

SLIP ON ALL PAPER

WORK FOR ALL ITEMS.

CUST REF: MUST BE THEIR PO # "DO NOT PRE

PAY & ADD TO ANY OF THE ABOVE

METHODS" & "CONSOLIDATE SHIPMENTS WHERE

EVER APPROPRIATE" DO NOT SHIP PARTS

BY ANY OTHER CARRIER THAN THOSE LISTED A

ALCOA GLOBAL FASTENERS, INC.

Keynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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Alcoa Fastening Systems



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Packing Slip: 9947998293

Page: 3

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MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #

02/08/11 F380062 OVY831

Line/Rel Item /M Qty Ordered Qty To Pack

BOVE, WITHOUT PROPER WRITTEN
AUTHORIZATION FROM BE AEROSPACE.
DO NOT INSURE OR DECLARE A VALUE FOR THI
S SHIPMENT

REL # BE-172757

QUALITY AS PER QAP 33.0 CLAUSES: A, B, C, E
, H, P, U, V APPLY

DUAL CERT TO NAS680A08 & REF K1000-08
chem & phys certs

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15853 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9947998293

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MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Notice to Subsequent Purchaser or Repacker.
These articles are imported. The requirements of 19 U.S.C.
1304 & CFR part 134 provide that the articles or their
containers must be marked in a conspicuous place as
legibly, indelibly & permanently as the nature of the article or
container will permit, in such a manner as to indicate to an
ultimate purchaser in the United States, the English name of
the country of origin of the article.

Order Contact:

=====

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
02/08/11	F380062	OVY831			

=====

=====

Line/Rel	Item	Qty	Unit	Ordered	Shipped	Received
1-1	BAY170 K1000-08	14	00	952		

=====

C/I: MS21047L08
PO Item #: 1

Cust Date: 02/17/11
Kay Date: 02/04/11

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: M010203-000 COO:MEXICO

Waybill: _____ ECCN:9A991 Schedule-B Number:7318.16.0000

The export classification appears above. You are
responsible for all related export license
requirements.

MFG C OF C CHEM & PHYS TEST REPORTS REQ'
D
DUAL CERT TO NAS680A08
CERT CHARGE ON #1 INVOICE WITH #1

BUYER:CRISTINA SANCHEZ

PHONE: 30

Honeywell Source Accepted:

Christy Witter
Christy Witter
Date 2/8/11

RMRA # (if appl) N/A

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with
the contract, drawing specifications, and other applicable documents. All
required process certifications, chemicals and physical test reports are on file
subject to examination. This document must not be reproduced except in
full and relates only to the items tested.

Christopher Fredrickson
CHRISTOPHER FREDRICKSON
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH
TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST
ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE
DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING
HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF
FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9947998293

Page: 2

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #

02/08/11 F380062 OVY831

Line/Rel Item U/M Qty Ord and Qty to Pack

5-592-5158

***SHIP FEDEX GRD COLECT ACCT#0381-0149

-0. IF OVER 150 LBS, SHIP FED EX

NATIOANL (WATKINS), ACCT#018757.**

**ALLOWABLE SHIPPING TOLERANCE = +0%-0 %

MUST STATE COUNTRY OF ORIGIN WHERE PARTS
WERE MANUFACTURED ON CERTIFICATION
FOR EACH LOT NUMBER. ALL ITEMS ON THIS P
O MUST BE NEW AND TO THE LATEST REV
MFGS NAME & LOT# MUST APPEAR ON PACKING
SLIP ON ALL PAPER
WORK FOR ALL ITEMS.

CUST REF: MUST BE THEIR PO # "DO NOT PRE
PAY & ADD TO ANY OF THE ABOVE
METHODS" & "CONSOLIDATE SHIPMENTS WHERE
EVER APPROPRIATE" DO NOT SHIP PARTS
BY ANY OTHER CARRIER THAN THOSE LISTED A

CERTIFICATE OF CONFORMANCE

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Christopher Fredrickson

CHRISTOPHER FREDRICKSON
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Keynar Products: Cage Code 15853 • Eagle Products: Cage Code 66778 • Rosan Products: Cage code 66778

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip

Packing Slip: 9947998293

Page: 3

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #

02/08/11 F380062 0VY831

Line/Rel Item Ordered Qty To Pack

BOVE, WITHOUT PROPER WRITTEN
AUTHORIZATION FROM BE AEROSPACE.

DO NOT INSURE OR DECLARE A VALUE FOR THIS SHIPMENT

REL # BE-172757

QUALITY AS PER QAP 33.0 CLAUSES: A,B,C,E
,H,P,U,V APPLY

DUAL CERT TO NAS680A08 & REF K1000-08
chem & phys certs

CERTIFICATE OF CONFORMANCE

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Christopher Fredrickson
CHRISTOPHER FREDRICKSON
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Keynar Products: Cage Code 15853 • Eagle Products: Cage Code 68778 • Rosan Products: Cage code 68778

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip

Packing Slip: 9948033728

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO

Ship Via

Weight Pkgs #

05/22/12 F425273 OFLF36

Line/Rel Item

/M

Qty Ordered Qty To Pack

1-1 BG4250
F5000-3BC

C/I: MS21059L3K
PO Item #: 1

*** TSO C-148 APPVD PART. TSO LABEL REQUIRED ***

Lot: 5376916-000

COO:MEXICO

Waybill:

ECCN:9A991 Schedule-B Number:7318.16.0000

The export classification appears above. You are responsible for all related export license requirements.

MFG C OF C CHEM & PHYS TEST REPORT REQ

*** DUAL CERT TO NAS1031A3K, NAS1031P3K

& NAS686A3K ***

BUYER: CRISTINA

PHONE:

***SHIPPING INSTRUCTIONS: 1-149 LBS:FEDX

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653

Eagle Products: Cage Code 66776

Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948033728

Page: 2

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #
05/22/12 F425273 0FLF36

Line/Rel Item

/M

Qty Order Qty T Pack

GRD COLLECT ACCT# 037-014500
150 LBS OR MORE:SHIP FED EX FREIGHT ECON
OMY COLLECT ACCT# 018757. ***
DO NOT SHIP BY ANY OTHER WITHOUT PROPER
WRITTEN AUTHORIZATION.
ALLOWABLE SHIPPING TOLERANCE = +0% -0%
*** BAR CODE PER QAP 33 CLAUSE 3 REQUIRE
D ***
** QAP 33.0 REV F CLAUSES: A,B,C,E,H,P,U
,V.
CLAUSE A.3 GENERAL TERMS APPLIES.
chem & phys certs

ALCOA GLOBAL FASTENERS, INC.

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Alcoa Fastening Systems



Packing Slip

Packing Slip: 9948033728

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Notice to Subsequent Purchaser or Repacker.
These articles are imported. The requirements of 19 U.S.C. 1304 & CFR part 134 provide that the articles or their containers must be marked in a conspicuous place as legibly, indelibly & permanently as the nature of the article or container will permit, in such a manner as to indicate to an ultimate purchaser in the United States, the English name of the country of origin of the article.

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
05/22/12	F425273	0FLF36			

Line/Rel	Item	Ordered	to pack
1-1	B04250 F5000-3BC	175.000	25.05

C/I: MS21059L3K *Rev. 1*
PO Item #: 1
*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Cust Date: 08/25/12
Kay Date: 04/30/12

Lot: 5376916-000

COO:MEXICO

ECCN:9A991 Schedule-B Number:7318.16.0000

Waybill:

The export classification appears above. You are responsible for all related export license requirements.

MFG C OF C CHEM & PHYS TEST REPORT REQ
*** DUAL CERT TO NAS1031A3K, NAS1031P3K *Rev. 6*
& NAS686A3K *** *Rev. 13*

BUYER: CRISTINA PHONE:
***SHIPPING INSTRUCTIONS: 1-149 LBS:FEDX

CERTIFICATE OF CONFORMANCE

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K452

Michele Varela
MICHELE M. VARELA
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948033728

Page: 2

Bill To: 5574
B/E AEROSPACE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
05/22/12	F425273	0FLF36			

Line/Rel Item Description Qty Ord d Ship To Pack

GRD COLLECT ACCT# 931-049-011
150 LBS OR MORE SHIP FED EX FREIGHT ECON
OMY COLLECT ACCT# 018757. ***
DO NOT SHIP BY ANY OTHER WITHOUT PROPER
WRITTEN AUTHORIZATION.
ALLOWABLE SHIPPING TOLERANCE = +0%-0 %.
*** BAR CODE PER QAP 33 CLAUSE P REQUIRE
D ***
** QAP 33.0 REV F CLAUSES: A,B,C,E,H,P,U
,V.
CLAUSE A.3 GENERAL TERMS APPLIES.
chem & phys certs

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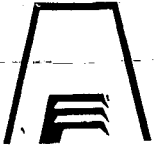
MICHELE M. VARELA
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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CUSTOMER'S COPY



Automatic Screw Machine Products Co.
709 2nd Ave. SE.
P.O. Box 1608
Decatur AL 35601
USA

Phone: 256-353-1931
Fax: 256-355-3612

Pack Slip: 24515

Packing Slip

Page: 1 of 3

Ship To:

B/E Aerospace Consumables Management
9835 NW 14th Street
Miami FL 33172
USA

Sold To:

B/E Aerospace Consumables Management
P.O. Box 025263
Miami FL 33102-5263
USA

Ship Date: 4/4/2013

Ship Via: Fed Ex Freight Priority

F.O.B.: Origin FRT Collect

PO Line	Planned Qty	Shipped Qty	Part Number/Description	Rev
Sales Order: 714619 Your PO: OENB31				
	1,000	1,000	NAS509L12 Nut, CD, Thk, Cad, LH	7
			Reference: REL# W323OENB31	
			Our Part: NAS509L12	
Lot #: 14330				
Weight: 90				
Pkgs: 3				
DFAR CERTIFICATIONS				
QAP CLAUSE A, A.1, B, C, E, H, P, U, V apply				
<hr/>				
Sales Order: 715659 Your PO: OKBA10				
	5,000	4,350	NAS509-12 Nut, CD, Thk, Cad	7
			Reference: REL# GM2TOKBA10	
			Our Part: NAS509-12	
Lot #: 14107				
Weight: 391				
Pkgs: 11				
DFAR CERTIFICATIONS				
QAP 33.O Clauses A, A.1, B, C, E, H, P, U, V apply				
	5,000	650	NAS509-12 Nut, CD, Thk, Cad	7
			Reference: REL# GM2TOKBA10	
			Our Part: NAS509-12	
Lot #: 14055				
Weight: 59				
Pkgs: 2				
DFAR CERTIFICATIONS				
QAP 33.O Clauses A, A.1, B, C, E, H, P, U, V apply				
<hr/>				
Sales Order: 715680 Your PO: OKKB57				



Automatic Screw Machine Products Co.
709 2nd Ave. SE.
P.O. Box 1608
Decatur AL 35601
USA

Phone: 256-353-1931
Fax: 256-355-3612

Pack Slip: 24515

Packing Slip

Page: 2 of 3

PO Line	Planned Qty	Shipped Qty	Part Number/Description	Rev
Sales Order: 715680		Your PO: OKKB57		
	50,000	12,470	NAS509-3 Nut, CD, Thk, Cad	7
Lot #: 14068			Reference: REL # B904OKKB57	
Weight: 51			Our Part: NAS509-3	
Pkgs: 2			Country of Origin USA	
DFAR Certifications				
QAP 33.0 Clauses A, A.1,B,C,E,H,P,U,V apply				
	50,000	5,825	NAS509-3 Nut, CD, Thk, Cad	7
Lot #: 14067			Reference: REL # B904OKKB57	
Weight: 23			Our Part: NAS509-3	
Pkgs: 1			Country of Origin USA	
DFAR Certifications				
QAP 33.0 Clauses A, A.1,B,C,E,H,P,U,V apply				
	50,000	16,195	NAS509-3 Nut, CD, Thk, Cad	7
Lot #: 14066			Reference: REL # B904OKKB57	
Weight: 65			Our Part: NAS509-3	
Pkgs: 2			Country of Origin USA	
DFAR Certifications				
QAP 33.0 Clauses A, A.1,B,C,E,H,P,U,V apply				
	50,000	14,695	NAS509-3 Nut, CD, Thk, Cad	7
Lot #: 14069			Reference: REL # B904OKKB57	
Weight: 61			Our Part: NAS509-3	
Pkgs: 3			Country of Origin USA	
DFAR Certifications				
QAP 33.0 Clauses A, A.1,B,C,E,H,P,U,V apply				
	50,000	815	NAS509-3 Nut, CD, Thk, Cad	7
Lot #: 14065			Reference: REL # B904OKKB57	
Weight: 5			Our Part: NAS509-3	
Pkgs: 1			Country of Origin USA	
DFAR Certifications				
QAP 33.0 Clauses A, A.1,B,C,E,H,P,U,V apply				

Sales Order: 715707

Your PO: OKKL64



Automatic Screw Machine Products Co.
709 2nd Ave. SE.
P.O. Box 1608
Decatur AL 35601
USA

Phone: 256-353-1931
Fax: 256-355-3612

Pack Slip: 24515

Packing Slip

Page: 3 of 3

PO Line	Planned Qty	Shipped Qty	Back Order Qty	Part Number/Description	Rev
---------	-------------	-------------	----------------	-------------------------	-----

Sales Order: 715707

Your PO: OKKL64

6,828

4,800

2,028

MS9364-17
Nut, Slot, Thin, A286, Silver

A

Reference: P2BCOKKL64

Our Part: MS9364-17

Lot #: 14085

Weight: 272

Pkgs: 8

DFAR CERTIFICATIONS

QAP 33.0 Clauses A, A.1, B, C, E, H, P, U, V apply

Sales Order: 715714

Your PO: OKKB85

1,751

1,184

NAS1423-14

3

Nut, CD, Thin, Cad

Reference: REL # GM2TOKKB85

Our Part: NAS1423-14

Lot #: 14097

Weight: 72

Pkgs: 2

DFAR CERTIFICATIONS

QAP 33.0 Clauses A, A.1, B, C, E, H, P, U, V apply

Sales Order: 716286

Your PO: OMAY41

600

60

BACN11U5CM1

D

Nut, CD, Thk, A286, Pass, DFL

Reference: REL# W010OMAY41

Our Part: U-5CM1

Lot #: 11120

Weight: 0

Pkgs: 0

QAP 33.0 Clauses A, A.1, B, C, E, G.1, H, N, P, U, V apply

DFAR Certifications

600

540

BACN11U5CM1

D

Nut, CD, Thk, A286, Pass, DFL

Reference: REL# W010OMAY41

Our Part: U-5CM1

Lot #: 12740

Weight: 7

Pkgs: 1

QAP 33.0 Clauses A, A.1, B, C, E, G.1, H, N, P, U, V apply

DFAR Certifications

Total Shipment Weight: 1,125

Alcoa Fastening Systems



Shipper ID: 729515

Page: 1

Sold To: 5574
B/E AEROSPACE, INC.
ATTN: ACCOUNTS PAYABLE
P.O. BOX 025263
MIAMI, FL 33102-5263
USA

Ship To: 55740014
B/E AEROSPACE CONSUMABLES
9835 NW 14TH ST
MIAMI, FL 33172
USA

Shipped From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
NEWBURY PARK, REPUBLIC OPERATIONS
1300 Rancho Conejo Blvd
Newbury Park, CA 91320
TEL: (805) 262-4200

Ship Date: 08/24/10
Print Date: 08/24/10
Time: 13:29:34

Ship Via: FEDEX NAT.
INCO Terms: FOB Newbury Park

Container/Weight:
Carrier Shipment Ref: 729515
Bill Lading #:

CERT REQ'D TO MS & NAS REV LATEST

BUYER: CLAUDIA

Sales Order: F365449 Order Date: 08/04/10 Purchase Order: 082509

Remarks: NPR LEGACY ORDER

Ln	Item Number	Description	Rev	Qty Shipped	Qty B/O UM
1	R2000A06	Fixed Two Lug, C1050		16780.0	0.0 EA

Low Height

Cust Line #: 1

Customer Item: MS21047L06

Required Date: 09/24/10 Promised Date: 10/01/10

Loc/Lot: F-1409 XP001 16,780.00

SCHEDULE-B NUMBER: 7318160000

ECCN: 9A991

COO:

***** Total Qty Shipped:

16,780

ALCOA GLOBAL FASTENERS, INC.

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON.

SHIPPING COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948080768

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Notice to Subsequent Purchaser or Repacker.
These articles are imported. The requirements of 19 U.S.C.
1304 & CFR part 134 provide that the articles or their
containers must be marked in a conspicuous place as
legibly, indelibly & permanently as the nature of the article or
container will permit, in such a manner as to indicate to an
ultimate purchaser in the United States, the English name of
the country of origin of the article.

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #
01/14/14 F433565 0FRW45

Line/Rel Item

9-1 AAT840
H41-3

C/I: MS21043-3
PO Item #: 4

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: 5404670-000 COO:MEXICO

Waybill:

HTS-Code:7318.16.0060

ECCN:9A991 Schedule-B Number:7318.16.0000

The export classification appears above. You are
responsible for all related export license
requirements.

MFG C OF C CHEM & PHYS TEST REPORT REQ

** DUAL CERT TO NAS1291C3 AND LS8859-3

**

SHIP VIA : FED EX AIR
BUYER: CRISTINA SANCHEZ

PHONE:

8452

1/14/14

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653

Eagle Products: Cage Code 66776

Rosan Products: Cage code 66776

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HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF
FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948080768

Page: 2

Bill To: 5574
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P.O.BOX 025263
MIAMI FL 33102-5263
USA

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9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

=====

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
01/14/14	F433565	0FRW45			

=====

Line/Rel Item

/M

Qty Ordered

Qty To Pack

MATERIAL COMPLIES WITH DFARS 252.225-7100
9 PREFERENCE FOR DOMESTIC SPECIALTY
METALS" WITH ITS ALTERNATE 1.

***SHIP VIA FEDX AIR COLLECT ACCT# 0031
0149-0 IF 150 LBS OR MORE:SHIP
EX FREIGHT ECONOMY COLLECT ACCT# 018757

DO NOT SHIP BY ANY OTHER WITHOUT PROPER
WRITTEN AUTHORIZATION.

ALLOWABLE SHIPPING TOLERANCE = +0%-0 %.
** BAR CODE PER QAP 33 CLAUSE P REQUIRED

** QAP 33.0 REV F CLAUSES: A,A.1,B,C,E,H
,P,U,V. CLAUSE A.3 GENERAL TERMS
APPLIES.

*** PER JESSICA 8/24 PULL IN MARCH & JUN
E SCH FROM 2013 TO ASAP VB 8/24
chem & phys certs

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653

Eagle Products: Cage Code 66776

Rosan Products: Cage code 66776

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CUSTOMER'S COPY



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
6	1000	EA	MS21042L4		UG014	ALCOA FASTENING/REPU	52828		



Jason Lewis
Vice President of Quality

06/12/14

Inv # 06/12/14

Receiving Report

Date: 14/4/13

Batch No: M129472

Supplier: BK

Dart P/O: 24532

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☐

Release Note Attached: Yes ☒ No ☐ N/A ☒
 Waybill Attached: Yes ☐ No ☒ N/A ☒
 Shipment Complete: Yes ☐ No ☒ N/A ☒
 QC18 Inspection ☒ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
M528775-008		1000	0	1000			
NA5161611-010		900	0	900			

Initials of Receiver

QC12

Production/Admin:

Date



Received/Costing

Initial

Location

PACKING LIST

SHIPPER

SOLD TO UFC AEROSPACE CORP. P.O. BOX 250 BAYSHORE, NY 11706		SALESMAN NO. 0		DATE 10/01/08		NUMBER 160055	
SHIP TO UFC AEROSPACE CORP. 25 DREXEL DRIVE BAYSHORE, NY 11706		BUYER MICHELLE		 REPUBLIC FASTENER MFG. CORP. 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CALIF 91320 PHONE: (805) 498-6621			
CUSTOMER NO. 3485	CUSTOMER P.O. NO. PUR013GX	ORDER DATE 08/16/07	RESALE YES	SHIPPED VIA YELLOW FREIGHT		TERMS 1/2% - 10 DAYS - NET 30	
ORDER QUAN	SHIP QUAN	BAL DUE	LINE	RFM LOT NO.	DESCRIPTION / PART NO. / CARTONS - WT.		
500000	117965	0	1		NUT SELF LOCKING MS21042L4 RH30A4		
	117965 FROM LOT #:			UG014	9 CTNS @ 41 LBS EA 1 CTNS @ 19 LBS EA		
		0	2		TR C&P INCLUDED  MS & HAS REV LATEST REQD; CERT REQD *9/23 TOTAL CARTONS 10 TOTAL WEIGHT 388 LBS		

25,000 E
SHORT



ANY CLAIM FOR SHORTAGES OR ADJUSTMENTS MUST BE MADE WITHIN 10 DAYS FROM RECEIPT OF GOODS

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THIS REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE ABOVE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS WERE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS THEREBY RELATING. TEST REPORTS COVERING MATERIALS IN THESE PARTS, AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS, ARE ON FILE AND SUBJECT TO EXAMINATION.

We hereby certify that these goods were produced in compliance with all applicable requirements of Sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of the regulations and orders of the United States Department of Labor issued under Section 14 thereof.

THE LIABILITY OF SELLER ON PARTS FOUND TO BE DEFECTIVE IS LIMITED TO REPLACEMENT OR REWORK OF SUCH GOODS, AT SELLERS OPTION, AND IN NO CASE IS TO EXCEED THE INVOICE VALUE OF SUCH GOODS. UNDER NO CIRCUMSTANCE WILL SELLER BE LIABLE FOR DAMAGES OR COSTS INCURRED BY BUYER OR SUBSEQUENT USER BEYOND THE INVOICE VALUE OF SAID PARTS. BUYER SHOULD BE AWARE THAT IF SUBJECT GOODS ARE REWORKED BY OTHER THAN SELLER OR SUBJECT TO ADDITIONAL PROCESSING ALL WARRANTIES PROVIDED BY SELLER ARE DECLARED NULL AND VOID AND SELLER ASSUMES NO LIABILITY FOR DAMAGES INCURRED BY BUYER OR SUBSEQUENT USERS. THIS WARRANTY IS VOID IF SELLER IS NOT NOTIFIED IN WRITING OF ANY REJECTIONS WITHIN 90 DAYS AFTER RECEIPT OF MATERIAL BY CUSTOMER.

SHIPPER'S COPY

SHIPPER

SOLD TO

UFC AEROSPACE CORP.
P.O. BOX 250
BAYSHORE, NY 11706

SALESMAN NO.

0

DATE

10/01/08

NUMBER

160055

160055



REPUBLIC FASTENER MFG. CORP.

1300 RANCHO CONEJO BLVD.

NEWBURY PARK, CALIF 91320

PHONE: (805) 498-6621

SHIP TO

UFC AEROSPACE CORP.
25 DREXEL DRIVE
BAYSHORE, NY 11706

BUYER
MICHELLE

CUSTOMER NO.

3485

CUSTOMER P.O. NO.

PUR0136X

ORDER DATE

08/16/07

RESALE

YES

SHIPPED VIA

YELLOW FREIGHT

TERMS:

1/2% - 10 DAYS - NET 30

ORDER QUAN.	SHIP QUAN.	BAL. DUE.	LINE	REM. LOT NO.	DESCRIPTION / PART NO. / CARTONS / WT.
500000	117965	0	1		NUT SELF LOCKING MS21042L4 RH30A4 9 CTNS @ 41 LBS EA 1 CTNS @ 19 LBS EA
	117965	FROM LOT #:		UG014	
	0	0	2		TR C&P INCLUDED
					MS & NAS REV LATEST REQD; CERT REQD *9/23
					TOTAL CARTONS 10 TOTAL WEIGHT 388 LBS



ANY DENIAL OR SHORTAGES OR ADJUSTMENTS MUST BE MADE WITHIN 10 DAYS FROM RECEIPT OF GOODS

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THIS REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE ABOVE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS WERE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS THEREBY RELATING. TEST REPORTS COVERING MATERIALS IN THESE PARTS, AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS, ARE ON FILE AND SUBJECT TO EXAMINATION.

We hereby certify that these goods were produced in compliance with all applicable requirements of Sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of the regulations and orders of the United States Department of Labor issued under Section 14 thereof.

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REPUBLIC FASTENER MANUFACTURING CORPORATION

1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805)-498-6621

CERTIFICATE OF TEST

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THIS REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS ARE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS CURRENT ON THE DATE OF MANUFACTURE. TEST REPORTS COVERING MATERIALS IN THESE PARTS AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS, ARE ON FILE AND SUBJECT TO EXAMINATION. PARTS AS SHIPPED HAVE NEVER BEEN IN CONTACT WITH MERCURY. **THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY. PARTS MANUFACTURED IN U.S.A.**

Delfina Martinez

SIGNATURE

QUALITY ASSURANCE REPRESENTATIVE



P.O.

PR013GX

PART NO.

MS21042L4

Rev. NC.

QUANTITY ORDERED

117,965

DATE CERT ORDERED

10-01-08

CUSTOMER

UFC. Aerospaco Corp.

LOT NO.

2G014

DESCRIPTION

Hexagon Nut

PROCUREMENT SPEC

NASM25027

ALSO CERTIFIED TO

NAS1291-4

Rev. 12



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

QUALITY CONTROL INSPECTION REPORT

PART NAME <i>Hex Nut</i>		PART NUMBER <i>MS21042L4</i>		REV <i>NC</i>	NOTES <i>also conforms to NAS 1291-4 Rev. 12</i>
TOTAL LOT QTY <i>214,376</i>	LOT NUMBER <i>UG014</i>	SAMPLE SIZE <i>800 65 40</i>			
INSPECTION LEVELS ACCEPT/REJECT QUANTITIES	MAJOR A - II ACCEPT <i>0</i> A REJECT <i>1</i>		MAJOR B - ACCEPT <i>0</i> B REJECT <i>1</i>	MINOR - ACCEPT <i>0</i> REJECT <i>1</i>	<i>C=0</i>
A.Q.L.	CHARACTERISTIC DESCRIPTION	DEFECT	INSPECTION MEDIA		
MAJOR A	SELF-LOCKING FEATURE MISSING	<i>0</i>	VISUAL		
MAJOR B	THREAD FIT	<i>0</i>	THREAD GAGE		
	BEARING SURFACE SQUARENESS	<i>0</i>	TABLE SQUARENESS GAGE		
	SURFACE FINISH, PLATING, OR SURFACE TREATMENT	<i>0</i>	VISUAL		
	RIVET HOLE LOCATION AND ALIGNMENT (PLATE NUTS ONLY)	<i>N/A</i>	FUNCTIONAL ALIGNMENT OR VARIABLE GAGE		
	OVERALL HEIGHT OF NUT	<i>0</i>	0-6" CALIPER		
	LENGTH AND WIDTH	<i>0</i>	0-6" CALIPER		
MINOR	DIMENSIONS OF WRENCHING ELEMENT (WRENCHABLE NUTS ONLY)	<i>0</i>	0-6" CALIPER		
	LOOSE OR HANGING BURRS	<i>0</i>	VISUAL		
	ALL OTHER DIMENSIONAL CHARACTERISTICS NOT COVERED ABOVE	<i>0</i>	SMI		
QUANTITY ACCEPTED <i>214,376</i> DATE <i>9-30-08</i> ACCEPTANCE					

QCIR98009.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

QUALITY CONTROL INSPECTION REPORT

Lot Number <i>UG014</i>						
SAMPLE SIZE	CHARACTERISTIC DESCRIPTION	INSPECTION MEDIA	1ST ARTICLE #	DEFECT	ACCEPT/REJECT	RELEASE DATE
NUT	MATERIAL: <i>WIRETECH</i> HEAT: <i>54/180</i> SIZE: <i>3/32 WIRE</i>	VENDOR CERTIFICATIONS ALLOY VERIFICATION	RFM 27	<i>0</i>	<i>ACC</i>	<i>9/11/08</i>
CAP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		<i>N/A</i>		
BASKET	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		<i>N/A</i>		
CLIP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		<i>N/A</i>		
15 PCS	AMS5732, AMS5525 STAINLESS ONLY! AGED LOAD	TENSILE R/C HARDNESS TESTER		<i>N/A</i>		
15 PCS	AMS-H-6875A, MIL-H-6875 STEEL ONLY! AUSTEMPERING LOAD <i>28539</i>	TENSILE R/C HARDNESS TESTER		<i>0</i>		<i>9/22/08</i>
SEE LOG	AMS2410J [] AMS2411D [] SILVER PLATING LOAD	VISUAL ADHESION & THICKNESS ASTM B567		<i>N/A</i>		
SEE LOG	AMS-QQ-P-416B Class [] [] [] CAD PLATING LOAD <i>21271</i>	VISUAL ADHESION & THICKNESS ASTM B567		<i>0</i>		<i>9/24/08</i>
10 PCS	EMBRITTLMENT RELIEF BAKE 375°F ± 25° FOR 23 HOURS MIN. CAD PLATING LOAD <i>21271</i>	23 [] NUT 48 - 50 [] CLIP HOUR STRESS AT ROOM TEMP. PER NASM1312, TEST 14		<i>0</i>		<i>9/24/08</i>
5 PCS	EMBRITTLMENT RELIEF BAKE 375°F ± 25° FOR 23 HOURS MIN. CAD PLATING LOAD	96 [] HOUR STRESS AT SERVICE TEMP PER NASM1312, TEST 14		<i>N/A</i>		
ASQC Z1.4	GOLD CHROMATE TREATMENT TYPE II	VISUAL - WORKMANSHIP SALT SPRAY TEST OF AMS-QQ-P-416		<i>0</i>		<i>9/24/08</i>
SEE LOG	PASSIVATED PER AMS-QQ-P-35, AMS2700 STAINLESS STEEL ONLY!	VISUAL SALT SPRAY TEST PER ASTM B117		<i>N/A</i>		
ASQC Z1.4	MAGNETIC PERMEABILITY <2.0 (AIR 1.0) FOR A FIFI D STRENGTH = 200 OERSTEDS	INDICATOR PER ASTM A342-04 MCT1000 CORROSION RESISTANT STEEL ONLY		<i>N/A</i>		
SEE LOG	NON-DESTRUCTIVE TESTING DISCONTINUITIES SAMPLE <i>17</i> 100% []	MAGNETIC PARTICLE PER ASTM E1444 OR FLUORESCENT PENET. PER ASTM E1417		<i>0</i>		<i>9/24/08</i>
15 PCS	DRY FILM LUBRICANT PER AS5272 TYPE I BATCH NO: <i>090642</i>	VISUAL - WORKMANSHIP ADHESION, THICKNESS SALT SPRAY TEST OF NASM1312, TEST 1		<i>0</i>		<i>9/24/08</i>
8 PCS 15 PCS	MICROSTRUCTURE	BPS-N-70 [] NAS3350 []		<i>N/A</i>		
ASQC Z1.4	THREADS PER MIL-S-8879C, AS8879	METHOD B, SYSTEM 22		<i>0</i>		<i>9/24/08</i>

QCIR-006.PUB REV.J 01/13/06



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

QUALITY CONTROL INSPECTION REPORT

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	25027 ATTRIBUTE PLAN
UG014	LOT SIZE SA UNDER 9.....2 9 THRU 15.....3 15 THRU 25.....4 25 THRU 50.....5 51 THRU 100.....7 101 THRU 200.....10 201 THRU 500.....13 OVER 500.....15	ALL SAMPLES TESTED MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS	LOT SIZE SE UNDER 10K.....5 10K THRU 50K.....10 50K THRU 100K.....15 OVER 100K.....20

PUSH-OUT TEST		DATE	MIN.	POUNDS	PUSH-OUT REQUIREMENTS
					PASS / FAIL
					STAMP

TORQUE-OUT TEST		DATE	MIN.	INCH POUNDS	TORQUE OUT REQUIREMENTS
					PASS / FAIL
					STAMP

WRENCHING TORQUE TEST		DATE	MIN.	INCH POUNDS	WRENCHING TORQUE REQUIREMENTS
					PASS / FAIL
					STAMP

TENSILE TEST		DATE	MIN.	INCH POUNDS	TENSILE TEST REQUIREMENTS
TEST BOLT	25027 REQ.	DATE	MIN.	INCH POUNDS	TENSILE TEST REQUIREMENTS
6200 6200 6200 6200 6200	6200	9-30-08	6200	6200	HIGH = 6200 (1) PROOF LOAD TEST
6200 6200 6200 6200 6200	6200		6200	6200	LOW = 6200 (1) TESTED TO FAILURE
6200 6200 6200 6200 6200	6200		6200	6200	R = 0 (RANGE = HIGH MINUS LOW)
6200 6200 6200 6200 6200	6200		6200	6200	X = 6200 (AVERAGE TENSILE STRENGTH)
6200 6200 6200 6200 6200	6200		6200	6200	R x .4 = 0
6200 6200 6200 6200 6200	6200		6200	6200	X - .4R = 6200

QCIR-007.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

QUALITY CONTROL INSPECTION REPORT

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	25027 ATTRIBUTE PLAN
UG014	LOT SIZE SA UNDER 9.....2 9 THRU 15.....3 15 THRU 25.....4 25 THRU 50.....5 51 THRU 100.....7 101 THRU 200.....10 201 THRU 500.....13 OVER 500.....15		LOT SIZE SE UNDER 10K.....5 10K THRU 50K.....10 50K THRU 100K.....15 OVER 100K.....20

TORQUE TEST		DATE	MIN.	IN. LBS. (1st ON)	MIN.	IN. LBS. (1st BRK)
TEST BOLT	MAX	DATE	MIN.	IN. LBS. (1st ON)	MIN.	IN. LBS. (1st BRK)
1	16.0 14.0 20.0 17.0 15.0 15.0 20.0 18.0 20.0 20.0 17.0 15.0 28.0 22.0	9-30-08	30.0	30.0	3.5	3.5
7	13.0 11.0 15.0 12.0 11.0 10.0 19.0 15.0 13.0 16.0 14.0 13.0 20.0 19.0					
15	12.0 10.0 14.0 13.0 11.0 10.0 14.0 14.0 14.0 13.0 15.0 14.0 20.0 21.0					
1	25.0 25.0 26.0 18.0 19.0 20.0 25.0 24.0 24.0 28.0 23.0 25.0 21.0 17.0					
7	22.0 20.0 20.0 18.0 15.0 13.0 22.0 20.0 25.0 20.0 19.0 17.0 14.0 12.0					
15	22.0 22.0 20.0 18.0 14.0 14.0 25.0 21.0 25.0 20.0 19.0 15.0 13.0 15.0					
1	18.0 16.0 20.0 18.0 22.0 20.0 20.0 18.0 20.0 22.0 24.0 20.0 20.0 21.0					
7	17.0 13.0 18.0 14.0 17.0 15.0 16.0 16.0 16.0 14.0 17.0 17.0 14.0 15.0					
15	15.0 14.0 20.0 15.0 16.0 14.0 17.0 16.0 15.0 14.0 21.0 19.0 16.0 14.0					
1	25.0 16.0 26.0 16.0 27.0 23.0 21.0 20.0 25.0 23.0 25.0 20.0					
7	14.0 11.0 13.0 10.0 15.0 15.0 20.0 16.0 16.0 15.0 18.0 16.0					
15	14.0 13.0 13.0 11.0 20.0 17.0 16.0 16.0 15.0 13.0 20.0 16.0					

HARDNESS TEST		DATE	MIN.	IN. LBS. (1st ON)	MIN.	IN. LBS. (1st BRK)
TEST BOLT	MAX	DATE	MIN.	IN. LBS. (1st ON)	MIN.	IN. LBS. (1st BRK)
45 45 44 42 42 44 42 45 45 43 45 45 45 42 44	45	9-22-08	45	45	45	45
64 64 63 61.5 61.5 63 61.5 64 64 62 64 64 64 61.5 63	64		64	64	64	64
15N	15N		15N	15N	15N	15N

☆ CLIPS AND CLIP NUTS ONLY

QCIR-008.PUB



WireTech, Inc.
 6440 E. Canning Street
 Los Angeles, CA 90040
 Phone (323) 722-4933
 Fax (323) 721-2738

SOLD TO

Republic Fasteners
 1300 Rancho Conejo Blvd.
 Newbury Park, CA 91320
 USA

WORK ORDER
062772

CERTIFICATION
 HEAT NO.
 541180
 SALES ORDER / RLS
826639 / 1
 ISO 9001:2000 REGISTERED



CUSTOMER P.O. 13670	CUSTOMER PART	QUANTITY 10,205 Lbs	CARRIERS 7	LOADING NO 00072573	SHIPMENT DATE 07/01/2008
SPECIFICATION R104037-103420A A-4037, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.341/0.343 Specifications: AMS2301H, AMS5300D					
CERTIFICATION REQUIREMENTS					
Chemical Properties					
C .38	Si .24	Mn .76	P .007	S .007	Cu .10
					Ni .05
					Cr .17
					Mo .22
Physical Properties					
Grain Size Jominy 1 Jominy 2 Inclusions Macro Cleanliness Macro Source					
5 J1=56 J5=32 S2-R1-C2 GOOD F&S=0 Charter					
Country of Origin USA - DFAR Compliant					
Mechanical Properties					
TEST	UNITS	Results			
Tensile Strength	KSI	78.0			
Yield Strength	KSI	66.3			
% Elongation	%	30			
% Reduction of Area	%	71.7			
Rockwell Hardness B Scale	HRB (s)	83			
Decarb (Total)	In	0.00			

08-479

(RM 12)

Workpiece covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be made unless presented in writing within 10 days from receipt of material. Use maximum liability for any claim presented upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or use cannot be returned for credit and request for cancellation of such orders will not be considered if workpiece has been consumed. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth in the invoice. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, 18k 16, Chapter 47.

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS BY FAX.

WireTech, Inc. mechanical testing laboratory is accredited in the following tests: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic metal preparation per ASTM E 3, decarburization depth per ASTM E 1077, H-140, inclusion rating per ASTM E 45, decarburization performed as per H-140.

The reported Chemical and Physical Properties are Mill Source results. Transactions from this materials. (HSE) are performed with a 1180 tool belt belt. Unless otherwise specified, HSE and HPC results are conversions from ASTM A370 tables 1 and 2. Test results not covered by our current AQA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by AQA or reviewed by WireTech, Inc. AQA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

LATEST REVISIONS OF ASTM

Material is free of mercury, radium, or alpha contamination.



06302 (M1)

page 1 of 1

Mike Martinez

QA Manager

m lgt

07/01/2008

DATE

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
POCAHONTAS, ARKANSAS 72455

CERTIFICATE OF QUALITY COMPLIANCE

DATE: 3/14/2012

TO: B/E AEROSPACE
9835 NW 14TH ST
MIAMI, FL 33172

ESNA PART NO. M52LF3324-5
MANUFACTURER'S LOT SIZE 97653 (APPROX. WT. COUNT)
MANUFACTURED UNDER SHOP ORDER NUMBER 2012 - 000
ORIGINATED AS SHOP ORDER NUMBER 42363 - 000
CUSTOMER PO #: OYP712 PACKING LIST #: 57977
ESNA ORDER #: 067979 QTY PACKAGED: 97653
CUSTOMER PART #: MS21042L5

ACCEPTANCE TESTS PER NASM25027

MATERIAL RAW MATERIAL TYPE .343 RD. 4037 WIRE DATE MFG: 07/18/11
RAW MATERIAL CONFORMS TO AMS 6300 AS EVIDENCED BY THE ATTACHED MILL CERTIFICATION. ESNA SHOP
ORDER NO. 2012 - 000 MILL HEAT NO. 529830 VENDOR WIRE TECH

FINISH FINISH TYPE SAE AMS QQ-P-416B, TYPE II, CLASS 2
LUBRICANT TYPE EVERLUB 620C DRY FILM LUBE PER AS5272 TYPE 1

ACCEPTED 23 HR STRESS EMBRITTLEMENT LOADED TO 255 IN LBS. MIN.

AXIAL STRENGTH REQUIRED LBS. MINIMUM 10200 ALL SAMPLE PIECES TESTED MEET OR EXCEED
EXCEEDS LBS. 10500 MINIMUM REQUIREMENTS.

SAMPLE SIZE 15 PIECES.

HARDNESS REQUIREMENT HRC 43-46 IS HRC 43-45

WORKMANSHIP CONFORMS DIMENSIONALLY TO MS21042L5 PER NASM21042 (NEW) STANDARD.
BEARING SURFACE SQUARENESS AS SPECIFIED PER NASM25027

DISCONTINUITIES

WITHIN LIMITS PER NASM25027

AND MIL-STD-271D/ACN 1/ AND REV E/ NOTICE 2/ AND REV F/ NOTICE 1.

ASTM E1444	MT PER SPEC 725 X	SAMPLE SIZE(MT - PCS):	32
		ACCEPTED(PCS):	32
	PT PER SPEC 731	SAMPLE SIZE(PT - PCS):	0
		ACCEPTED(PCS):	N/A

This is to certify that all applicable plating, heat treating, and inspection processing and that all material used in the manufacture of subject parts conform to the specification or drawings received by ESNA and set forth in the subject purchase order; that the parts are of good material and workmanship; and that all necessary records, including chemical and physical where applicable, will be made available for review upon request. The inspection and test reports provided represent the actual attributes of the items furnished on this contract and indicate full compliance with all applicable specification and contract requirements.

This is to certify that the materials supplied against the subject order are free of contamination by presence of mercury.

SIGNATURE 
JIM CORTY, QUALITY ASSURANCE MANAGER
Brenda Ramsey, Quality Inspector

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
POCAHONTAS, ARKANSAS 72455

LOCKING TORQUE TEST

CUSTOMER NAME B/E AEROSPACE
9835 NW 14TH ST
MIAMI, FL 33172

CUSTOMER DUE DATE

3/14/2012

CUSTOMER PO # OYP712
ITEM NUMBER 056068
QUANTITY 97653
THREAD SIZE .3125-24 UNJF-3B
HEX .369-.377
LINE NO 1
MS NUMBER - REF: MS21042L5 PER NASM21042 (NEW)

ESNA ORDER # 067979
PART # M52LF3324-5
SHOP ORDER # 2012 - 000
LOT QUANTITY 97653
PARENT SHOP ORDER # 42363 - 000

Sample Size & Requirements per Spec NASM25027

SampleSz 15

REQUIREMENT: 1ST, 7TH, 15TH, INSTALLATION MAXIMUM TORQUE

60

15TH BREAKAWAY MINIMUM TORQUE

6.5

SAMPLE #	1ST ON	1ST BREAK	7TH ON	7TH BREAK	15TH ON	15TH BREAK
1	50	45	30	35	22	25
2	35	35	25	30	25	30
3	40	40	25	30	28	30
4	45	45	35	45	35	38
5	40	40	20	22	22	28
6	50	50	45	45	35	40
7	45	30	20	25	20	22
8	50	45	35	30	25	25
9	50	50	40	42	20	25
10	40	40	25	30	24	24
11	50	50	20	22	20	25
12	40	40	30	32	25	30
13	50	50	25	20	20	22
14	45	45	25	30	25	30
15	35	35	20	22	20	28

SIGNATURE

Brenda Ramsey
JIM CORTY, QUALITY ASSURANCE MANAGER
Brenda Ramsey, Quality Inspector



WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Maclean - ESNA
611 Country Club Road
Pocahontas, AR 72455
USA

WORK ORDER
087454

CERTIFICATION

HEAT NO.
529830

SALES ORDER / RLS

842188 / 3

ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CERT# 911.01

Handwritten: AMIA 24773
PO 22350 + 21622-22154
343 4037

CUSTOMER P.O. 22350-00	CUSTOMER PART 9290070343	QUANTITY 508 Lbs	CARRIERS 1	LADING NO 00093747	SHIPMENT DATE 11/23/2011			
SPECIFICATION M054037-103430A A-4037, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.342/0.344 Specifications: AMS 6300D, 2301H								
CERTIFICATION REQUIREMENTS								
Chemical Properties								
C .38	Si .25	Mn .76	P .007	S .008	Cu .08	Ni .05	Cr .19	Mo .22
Physical Properties								
Grain Size Jominy 1 6 J1=57	Jominy 2 J5=34	Inclusions S2-R1-C2	Macro GOOD	Cleanliness F&S=0	Mill Source Charter			
Country of Origin								
USA - DFAR Compliant								
Mechanical Properties								
TEST	UNITS					Results		
Tensile Strength	KSI					75.0		
Decarb (Total)	In					0.00		
Yield Strength	KSI					63.7		
% Elongation	%					31		
% Reduction of Area	%					73.9		
Rockwell Hardness B Scale	HRB (s)					82		
						2012-000		

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. *The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.*

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED. DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

"LATEST REVISIONS OF ASTM"

Material is free of mercury, radium, or alpha contamination.



WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Maclean - ESNA
611 Country Club Road
Pocahontas, AR 72455
USA



WORK ORDER
083753

CERTIFICATION

HEAT NO.
529830

SALES ORDER / RLS
839801 / 2

ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CERT# 911.01

2MIR 20773
PO 21022-22350 + 22154
343 4037
WNY

CUSTOMER P.O. 21622-00	CUSTOMER PART 9290070343	QUANTITY 1,684 Lbs	CARRIERS 1	LADING NO 00091057	SHIPMENT DATE 07/12/2011
SPECIFICATION M054037-103430A A-4037, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.342/0.344 Specifications: AMS 6300D, 2301H					
CERTIFICATION REQUIREMENTS					
Chemical Properties					
C ✓ .38	Si ✓ .25	Mn ✓ .76	P ✓ .007	S ✓ .008	Cu .08 Ni .05 Cr .19 Mo ✓ .22
Physical Properties					
Grain Size Jominy 1 Jominy 2 Inclusions Macro Cleanliness Mill Source 6 J1=57 J5=34 S2-R1-C2 GOOD F&S=0 Charter					
Country of Origin					
USA - DFAR Compliant					
Mechanical Properties					
TEST	UNITS				Results
Tensile Strength	KSI				76.1
Decarb (Total)	In				0.00
Yield Strength	KSI				64.7
% Elongation	%				33
% Reduction of Area	%				69.1
Rockwell Hardness B Scale	HRB (s)				82

2012-000

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. *The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.*

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140.

The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

"LATEST REVISIONS OF ASTM"

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

Material is free of mercury, radium, or alpha contamination.



WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Macleon - ESNA
611 Country Club Road
Pocahontas, AR 72455
USA



2MIA 267B
PO 22154-21622+2238
343 4037 WMP

CERTIFICATION

WORK ORDER
086485

HEAT NO.
529830
SALES ORDER / RLS
841582 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CERT# 911.01

CUSTOMER P.O. 22154-00	CUSTOMER PART 9290070343	QUANTITY 1,176 Lbs	CARRIERS 1	LADING NO 00093437	SHIPMENT DATE 11/08/2011
SPECIFICATION M054037-103430A A-4037, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.342/0.344 Specifications: AMS 6300D, 2301H					
CERTIFICATION REQUIREMENTS					
Chemical Properties					
C ✓ .38	Si ✓ .25	Mn ✓ .76	P ✓ .007	S ✓ .008	Cu .08 Ni .05 Cr .19 Mo ✓ .22
Physical Properties					
Grain Size Jominy 1 6 J1=57	Jominy 2 J5=34	Inclusions Macro S2-R1-C2	Cleanliness GOOD	Mill Source F&S=0	Charter
Country of Origin USA - DFAR Compliant					
Mechanical Properties					
TEST	UNITS	Results			
Tensile Strength	KSI	73.4			
Decarb (Total)	In	0.00			
Yield Strength	KSI	62.4			
% Elongation	%	31.5			
% Reduction of Area	%	73.7			
Rockwell Hardness B Scale	HRB (s)	81			

2012-000

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. *The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.*

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.
Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Mill Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

"LATEST REVISIONS OF ASTM"

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

Material is free of mercury, radium, or alpha contamination.

APR-09-2008 WED 09:27 AM

CHARTER ROLLING Q/Q DEPT

+1 262 268 2554

P. 09

FAX



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

CHARTER STEEL TEST REPORT

Reverse Has Text And Codes

1658 Cold Springs Road
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

Wiretech Incorporated
6440 East Canning Street
Los Angeles, CA 90040-
Attn: Janice Duran

	6192-4
	4037-1A110-C
	260939
	529830
	546597
	4037 R SK FG AQ
	SA
	7/16

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies those requirements.

Test Results of Heat Lot# 529830

Lab Code: 7388

OUTS. MELT SOURCE HEAT NUM. = N/R

Chemistry	C	MN	P	S	SI	NI	CR	MO	CU	SN	V
Wt%	0.38	0.76	0.007	0.008	0.250	0.05	0.19	0.22	0.08	0.004	0.001

	AL	N	B	TI	NB
	0.023	0.0060	0.0001	0.001	0.001

Jominy (HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM11	JOM12
	57	55	51	41	34	33	30	29	28	27	25	25

	JOM13	JOM14	JOM15	JOM16	JOM18	JOM20	JOM22	JOM24	JOM26	JOM28	JOM30	JOM32
	25	24	23	24	23	22	22	22	20	22	21	21

JOMINY SAMPLE TYPE ENGLISH = B JOMINY LAB = 0358-01

CHEM. DEVIATION EXT.-GREEN = N/R

AMS 2301 FRQ AVE = 0.02 AMS 2301 FRQ IND = 0.13

AMS 2301 SEV AVE = 0.04 AMS 2301 SEV IND = 0.25

Test Results of Rolling Lot # 380746

QC DEVIATION EXT.-GREEN = N/R

	# of Tests	Min Value	Max Value	Mean Value	
TENSILE (KSI)	1	77.3	77.3	77.3	TENSILE LAB = 0358-02
REDUCTION OF AREA (%)	1	66	66	66	RA LAB = 0358-02

NUM DECARB = 1 FREE FERRITE DECARB = 0.000 FREE FERR & PARTIAL DECARB = 0.001
 CP SPHERO % LAB = 0358-02 NUM SPHERO = 1 SPHERODIZATION (%) = 80.0
 QC DEVIATION EXT.-PROCESSED = N/R

Specifications:

Manufactured per Charter Steel Quality Manual Rev 8, 12-05-07
 Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
 Customer Document = COP 3010 Revision = M Dated = 12-MAR-2003

Additional Comments:

MEETS REQUIREMENTS OF SPECIFICATIONS AMS6300E/AMS2301J

2012-000

Amir 26773
 PO 22154-21622+2250
 342 4037 wire

Charter Steel
Saukville, WI, USA



ACCREDITED
 Testing Laboratory

Janice Barnard
 Manager of Quality Assurance
 04/08/2008

Fax number: (323) 728-6360

Rem: Load 1, Mailo, Fax1 Page 1 of 1

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States meeting DFAR's compliance.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080
0358-02	8171	CSSR/CSSP	Charter Steel Rolling/Processing Division	1658 Cold Springs Road, Saukville, WI 53080
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457
0358-04	125544	CSCM/CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004
.	.	--	Subcontracted test performed by laboratory not in Charter Steel system	

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Specification	CSSM	CSSR/CSSP	CSFP	CSCM/CSCR
Chemistry Analysis	ASTM E415; ASTM E1019	X			X
Macroetch	ASTM E381	X			X
Hardenability (Jominy)	ASTM A255; SAE J406; JIS G056	X			X
Grain Size	ASTM E112	X	X	X	X
Tensile Test	ASTM E8; ASTM A370		X	X	X
Rockwell Hardness	ASTM E18; ASTM A370	X	X	X	X
Microstructure (spheroidization)	ASTM A892		X	X	
Inclusion Content (Methods A, E)	ASTM E45		X		X
Decarburization	ASTM E1077		X	X	X

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/13.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.

2012-000



Amir 21073
 PO 22154-21022280
 343 4037
 . . .



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART, AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
12	100	EA	MS21059L3		31840	PAOLO ASTORI	A3856		


Jason Lewis
Vice President of Quality

06/11/14

PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 1 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
1	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
2	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
3	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
4	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	317	N	31862	
5	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
6	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
7	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
8	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
9	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
10	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
11	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
12	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3745	N	31862	
13	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

2 Kg. 1000

E9012

Aspetto esteriore merce 1 pallet	Comprende DdT n° /	Segue su DdT n° /
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore EXPEDITOR S	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART. 13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA, COME PREVISTO DALL'ART. 7 DEL D.LGS 196 DEL 30/06/2003, SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore
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Web: www.paoloastori.com

**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 2 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
14	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
15	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
16	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
17	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
18	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	2286	N	31862	
19	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
20	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
21	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
22	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
23	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
24	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	200	N	31862	
25	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
26	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 3 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
27	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
28	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
29	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
30	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
31	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
32	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3612	N	31862	
33	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
34	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
35	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
36	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
37	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	6390	N	31863	
38	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
39	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

**PAOLO ASTORI SPA**

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 4 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
40	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
41	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
42	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
43	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	1645	N	31863	
44	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
45	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
46	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
47	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
48	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
49	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
50	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
51	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	4580	N	31840	
52	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART.13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA.COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003. SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 5 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
53	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
54	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
55	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
56	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
57	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
58	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
59	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
60	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
61	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3650	N	31840	
62	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
63	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
64	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
65	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204768

62.657

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

**PAOLO ASTORI SPA**

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 6 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
66	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
67	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
68	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
69	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
70	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
71	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
72	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
73	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
74	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
75	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3895	N	31840	
76	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
77	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
78	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART.13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA, COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003. SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

**PAOLO ASTORI SPA**

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 7 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
79	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
80	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
81	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	2620	N	31840	
82	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
83	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
84	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
85	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
86	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
87	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
88	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
89	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
90	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
91	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART 13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA, COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003. SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

**PAOLO ASTORI SPA**

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 8 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
92	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
93	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
94	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
95	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5180	N	31840	
96	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
97	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
98	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
99	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
100	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
101	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	1140	N	31840	
102	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
103	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
104	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Seque su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART.13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA,COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003, SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

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**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 5994****Data** 19/10/2009**Pag.** 9 / 9**Spett:**

9449

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Destinazione:

370

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
105	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
106	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	740	N	31840	

5740

57002
52486
65002
61225
63650
63895
62820
64320
5740

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART. 13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA, COME PREVISTO DALL'ART. 7 DEL D.LGS 196 DEL 30/06/2003. SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

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Web: www.paoloastori.com

**CERTIFICATO DI CONFORMITA'
CERTIFICATE OF CONFORMANCE****N° 5994****Data 19/10/2009****Spett:**

M-M AEROSPACE HARDWARE INC.
10000 NW 15 TERRACE
MIAMI - FL
USA

Si certifica che il materiale sotto elencato è stato collaudato presso la nostra officina e risulta conforme ai requisiti dei vostri ordini e alle specifiche dei disegni ivi richiamati.

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
1	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
2	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
3	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
4	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	317	N	31862	
5	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
6	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
7	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
8	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
9	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
10	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
11	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
12	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3745	N	31862	
13	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
14	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Airbus approval # 204788

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
15	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
16	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
17	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
18	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	2286	N	31862	
19	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
20	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
21	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
22	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
23	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
24	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	200	N	31862	
25	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
26	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
27	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
28	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Airbus approval # 204788

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
29	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
30	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
31	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31862	
32	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3612	N	31862	
33	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
34	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
35	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
36	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
37	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	6390	N	31863	
38	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
39	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
40	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
41	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	
42	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31863	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Airbus approval # 204788

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
43	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	1645	N	31863	
44	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
45	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
46	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
47	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
48	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
49	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
50	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
51	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	4580	N	31840	
52	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
53	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
54	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
55	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
56	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

• SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Airbus approval # 204788

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[Handwritten signature]

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57	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
58	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
59	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
60	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
61	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3650	N	31840	
62	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
63	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
64	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
65	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
66	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
67	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
68	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
69	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
70	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788

Airbus approval # 204788

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
71	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
72	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
73	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
74	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
75	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	3895	N	31840	
76	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
77	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
78	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
79	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
80	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
81	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	2620	N	31840	
82	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
83	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
84	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
85	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
86	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
87	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
88	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
89	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
90	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
91	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
92	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
93	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
94	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
95	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5180	N	31840	
96	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
97	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
98	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	

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Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
99	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
100	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
101	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	1140	N	31840	
102	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
103	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
104	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
105	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	5000	N	31840	
106	MS21059L3 NAS686A3 (TR)	0BS884	24/09/2007	740	N	31840	

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INSPECTION CERTIFICATE

31840

Report # **31840**
Customer P/N **MS21059L3 NAS686A3**
Astori product code **10AD25A307N13**
Lot # **31840**
Procurement Spec. **NASM25027**
Raw material Spec. **MEQU13/01C**
Raw Material Lot # **-2111**
Purchase Order Ref: **M-M AEROSPACE HARDWARE INC. (P.O. 0BS884)**

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TEST DESCRIPTION	SAMPLES #	UNIT	REQUIRED VALUES		ACTUAL VALUES	OPERATOR BADGE #
			Min	Max		
AXIAL TENSILE LOAD (N)		N	10943		>12080	119
DIMENSIONAL INSPECTION		-	-	-	OK	
DISCONTINUITY INSPECTION		-	-	-	OK	
HARDNESS TEST		HRC		49	39-42	119
LOCKING TORQUE (Nm)		Nm	0.23	2.07	1.5-1.0-0.5	119
THICKNESS OF COATING		micron	8	12	10-12	119
VISUAL INSPECTION		-	-	-	OK	

Note.

This is to certify that parts have been produced, controlled and accepted according to the requirements of the above specification.
Material, heat treatments and manufacturing processes are the same as those used for the qualification approval.
The chemical analysis values have been reproduced from the original certificates released by the raw material supplier.

PRIMARY HEAT CHEMISTRY

C	0.436	Mn	0.660	Si	0.210	S	0.001	P	0.014
Al	0.020	Cr	0.240						

This is to certify that the goods have been produced, inspected and accepted according to the requirements of the above Specification.

The supplies hereon are released to you in accordance with the requirements of BAE/AG/SC1 PART 3 under our approval number BAE/AG/30631/MAA

Issue Date 16/09/2009

EN10204 COMPLIANT - DESIGNATION 3.1.B

Preparato da:
Gabriele Campagnoli

C
9



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	CURE DATE	EXP DATE
18	50	EA	NAS1515H8		C133169	SUPERIOR WASHER AND	4WUG7	07/08/13	UNLIMITED


Jason Lewis
Vice President of Quality

06/11/14

ORDER NUMBER: C133169

SUPERIOR WASHER AND GASKET CORP.170 Adams Avenue, P.O. Box 5407
Hauppauge, New York 11788
PHONE: (631) 273-8282
FAX: (631) 273-8088**SUPERIOR WASHER AND GASKET CORP.**170 Adams Avenue, P.O. Box 5407
Hauppauge, New York 11788
PHONE: (631) 273-8282
FAX: (631) 273-8088S ACCT NO. 6170
O B/E AEROSPACE
L P.O. BOX 025263
DS ACCT NO. 6170
H B/E AEROSPACE
I 9835 NW 14TH STREET
PT MIAMI FL 33102
OT MIAMI FL 33172
O

PURCHASE ORDER NUMBER OPWV74		TERMS 1% 10 NET 90	F.O.B. ORIGIN	DST	VO
SPECIAL INSTRUCTIONS FEDX#033101490 /OVR150#FEDXFRT					
QUANTITY ORIS	DESCRIPTION	UNIT PRICE	QTY SHIPPED	AMOUNT	
1. 3000	NAS1515-H8 REV 5 NYLON 6/6 L-P-410 .875 X .515 X .063 +.020-.005 +-.010 +-.010 SHIPPING DATES: 07/08/13STNYNB4	01/09/14	3000		
PAGE : 1					

CERTIFICATION OF COMPLIANCE

WE CERTIFY THAT THE ABOVE MATERIAL IS MANUFACTURED IN THE U.S.A. AND CONFORMS TO THE SPECIFICATIONS INDICATED IN DRAWINGS AND SPECIFICATIONS ON SAID PURCHASE ORDER AND PARTS ARE MERCURY FREE.

By Richard Anderson
QUALITY CONTROL MANAGER



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
17	50	EA	MS27039-5-12		40426	LFC INDUSTRIES	62384		

Jason Lewis
Vice President of Quality

06/11/14



LFC industries

A Division of RKR Technologies, LTD
manufacturer of precision aerospace fasteners

1221 Corporate Dr. W • P.O. Box 5982
Arlington, Texas 76006 (817) 640-1322

SHIPPING REPORT

48426

PRODUCTION ORDER #
COUNTRY OF ORIGIN: USA

M & M AEROSPACE
10000 NW 15TH TERRACE
MIAMI, FL 33172

COMMENTS



DFAR 252.225-7014
ALTERNATE 1 COMPLIANT

RETURN OF ANY MERCHANDISE LISTED HEREON WILL NOT
BE ACCEPTED WITHOUT PRIOR AUTHORIZATION

CERTIFICATE OF CONFORMANCE

THE MATERIALS, PROCESSES AND PARTS FURNISHED WERE PRODUCED IN ACCORDANCE WITH APPLICABLE SPECIFICATION REQUIREMENTS, AND TEST REPORTS INDICATING CONFORMANCE ARE ON FILE SUBJECT TO EXAMINATION. OUR Q.C. INSPECTION SYSTEM CONFORMS TO ISO 9001.

Elmer G. Gable
SIGNED

FEDEX NATL

OHB633

MS27039-5-12
ITEM# 1

2

10000

+0-5%

10-08-2009

10,000

9

.028

286.38

15

8.80

277.58

130

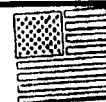
09-11-09

CUSTOMER PACKING SLIP

INDUSTRIES, DIV. OF RKR TECHNOLOGIES LTD.
21 CORPORATE DR. W., ARLINGTON, TX 76006
17) 640-1322 FAX (817) 652-1566

LFC IND. CAGE CODE # 62384, CERTIFICATION - FASTENERS IN THIS LOT WERE
MANUFACTURED, PROCESSED AND INSPECTED IN ONE RUN PER APPLICABLE
DRAWING, PROCUREMENT SPECIFICATION, ISO9001:2000, AND AS9100B.

PART # MS27039-5-12		REVISION 2		LOT # 48426		CUSTOMER M & M		PO # 0HB633											
QUANTITY 10000		PROCUREMENT SPECIFICATION NASM7839		HEAT TREAT SPECIFICATION AMS-H-6875A		DESCRIPTION SCREW, PAN HEAD													
FINISH TYPE TYII CL2		FINISH SPECIFICATION AMS-QQ-P-416B		BAKE N/A		CROSS RECESS													
THREAD SIZE 5/16-24 UNF3A		THREAD SPECIFICATION H28/2		HARDNESS REQUIRED RC 26-32		HARDNESS ACTUAL AVERAGE RC 29													
NDT SAMPLE SIZE 200		NDT SPECIFICATION ASTM E 1444-05		NDT ACCEPT 200		NDT REJECT 0		LOCKING ELEMENT SPECIFICATION N/A											
MAGNETIC PERMEABILITY SAMPLE SIZE N/A		PERMEABILITY ACCEPT N/A		PERMEABILITY REJECT N/A															
RECESS TORQ SAMPLE SIZE N/A		MINIMUM TORQ REQUIRED N/A		TORQ END LOAD N/A		TORQ ACCEPT N/A		TORQ REJECT N/A											
CHEMICAL COMPOSITION ON CERTIFIED MILL TEST REPORT																			
MILL HEAT # 8090637		MATERIAL SPECIFICATION AMS6322N		MATERIAL GRADE 8740		SUPPLIER WIRETECH													
C .42	Mn .86	P .011	S .012	Si .26	Ni .43	Cr .49	Mo .20	Cu .16	V 										
B 	Ti 	Al 	Co 	Pb 	Fe 	Sn 	Zn 	N 	Mg 										
TENSILE SAMPLE SIZE 20					TENSILE STRENGTH REQUIRED 7250#					DOUBLE SHEAR SAMPLE SIZE N/A					D. SHEAR STRENGTH REQUIRED				
T1	9300	T12	9300	T23		S1		S12		S23									
T2	9800	T13	9500	T24		S2		S13		S24									
T3	9400	T14	9800	T25		S3		S14		S25									
T4	9500	T15	9300	T26		S4		S15		S26									
T5	9800	T16	9800	T27		S5		S16		S27									
T6	9300	T17	9400	T28		S6		S17		S28									
T7	9800	T18	9500	T29		S7		S18		S29									
T8	9400	T19	9800	T30		S8		S19		S30									
T9	9500	T20	9300	T31		S9		S20		S31									
T10	9400	T21		T32		S10		S21		S32									
T11	9800	T22				S11		S22											
FATIGUE SAMPLE SIZE N/A					FATIGUE MAX LOAD					FATIGUE MIN LOAD					METALLURGICAL SAMPLE SIZE 20				
F1 CYCLES					F1 LOCATION OF FAILURE					MICRO STRUCTURE ACCEPT					MACRO STRUCTURE ACCEPT				
F2 CYCLES					F2 LOCATION OF FAILURE					DECARBURIZATION NONE					CARBURIZATION NONE				
F3 CYCLES					F3 LOCATION OF FAILURE					UNTEMPERED MARTENSITE NONE					GRAIN FLOW ACCEPT				
F4 CYCLES					F4 LOCATION OF FAILURE					DISCONTINUITIES ACCEPT					DEVIATION/WAIVER NOTES N/A				
F5 CYCLES					F5 LOCATION OF FAILURE					CERTIFICATION AMENDMENT NOTES N/A					AMENDMENT DATE				
F6 CYCLES					F6 LOCATION OF FAILURE														
F7 CYCLES					F7 LOCATION OF FAILURE														
F8 CYCLES					F8 LOCATION OF FAILURE														
FATIGUE ACCEPT 0					FATIGUE REJECT 0														
DATE 9/11/2009		SIGNATURE TITLE DATA ENTRY SPECIALIST		AUTHORIZED SIGNATURE <i>Elaine Small</i>															





WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

LFC Industries
1221 Corporate Drive West
Arlington, TX 76011
USA

CERTIFICATION

WORK ORDER
068753

HEAT NO.
8090637
SALES ORDER / RLS
830298 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CUSTOMER P.O. 14274	CUSTOMER PART	QUANTITY 2,646 Lbs	CARRIERS 2	LADING NO 00077593	SHIPMENT DATE 05/13/2009			
SPECIFICATION L158740-103095B A-8740, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.309/0.310 Specifications: AMS 2301H. AMS 6322N, MIL-S-6049A AMEND 1, AMS-S-6049-A								
CERTIFICATION REQUIREMENTS								
Chemical Properties								
C/ .42	Si/ .26	Mn/ .86	P/ .011	S/ .012	Cu/ .16	Ni/ .43	Cr/ .49	Mo/ .20
Physical Properties								
Grain Size	Jominy 1	Jominy 2	Jominy 3	Inclusions	Macro	Cleanliness	Mill Source	
6	J5=55	J8=47	J10=41	S2-R1-C2	GOOD	F&S=0	Republic	
Country of Origin								
USA - DFAR Compliant								
Mechanical Properties								
TEST	UNITS					Results		
Tensile Strength	KSI					84.2		
Yield Strength	KSI					71.5		
% Elongation	%					28		
% Reduction of Area	%					72.5		
Rockwell Hardness B Scale	HRB (s)					87		
Decarb (Total)	In					0.00		

CERTIFICATION
REVIEWED
ACCEPT
LFC
2

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140.

The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill-certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

"LATEST REVISIONS OF ASTM"

Material is free of mercury, radium, or alpha contamination.



Republic

1807 EAST 20TH ST.
PHONE: 330-438-5694

LORAIN, OH 44055
FAX: 330-438-5695

CERTIFICATE OF TESTS

REPUBLIC ENGINEERED PRODUCTS

September 11, 2008
PAGE 1

OF 2

PURCHASE ORD: 006200
PART NUMBER: 0740R1A103-C
ORDER NUMBER: 1369752 - 01
SEAT: 8090637

PURCHASE ORDER DATE: 2/11/2008
ACCOUNT NUMBER: 5645-1888-01
SCHEDULE: 6322-85
REVISION: 1

CHARGE ADDRESS

SHIP TO

WIRETECH INCORPORATED
6440 E CANNING ST
LOS ANGELES, CA 90040

WIRETECH INCORPORATED
JANICE DURAN
6440 E CANNING ST
COMMERCE, CA 90040

MATERIAL DESCRIPTION

HOT ROLLED STEEL COILS ALLOY WIRE TECH INC. SPEC COP 3010 REVISION M DTD 03/12/03 EXC PARA 4.1.1.4;
4.1.1.5; 4.1.2.3; 4.2 & TENSILE MIL S 6049A & AMD 1 COND C-1 EXC MARK & UT WAIVED AMS 6322N
FF 1131-0740 FINE GRAIN VACUUM DEGAUSED AIRCRAFT QUALITY COLD WORKING QUALITY SPHERODIZE ANN
RESTRICTED CHEMISTRY
SIZE: RDS .4055 DIAM X COIL
RDS 10.1000MM DIAM X COIL

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR
0.42	0.86	0.011	0.012	0.26	0.16	0.43	0.19
V	MO	SN	AT	CU	N		
0.003	0.20	0.007	0.024	0.001	0.0074		

CALCULATED TESTS

REDUCTION RATIO 1.004.7 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER
ASTM A29.

SENT - FINISHED RESULTS

JOHNSY HARDNESS TEST SAE J406/ASTM A255
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
59 53 57 56 55 53 51 47 44 41 39 38 36 35 35 33 33 31 31 31 30 30 29 29

MACRO ETCH TEST ASTM E381/MTL STD 430
ETCHANT: HCL TEMPERATURE: 170

AVG S R C
1 1 1

MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300

	IND	AVG	TND	AVG
FREQ	0	0	0	0
SEV	0	0	0	0

FINISHED SIZE RESULTS

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558
ETCHANT - NITAL MAGNIFICATION = 100X

TOTAL
DEPTH
INCHES
PC2 12411 0.001

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558
ETCHANT - NITAL MAGNIFICATION = 100X

COMPLETE DEPTH

**CERTIFICATION
REVIEWED
ACCEPT
LFC
2**

R. A. SZELIGA
MANAGER TECH. SERVICES

BY JANET K. HARTLINE

R. A. Szeliga



1807 EAST 20TH ST.
PHONE: 330-438-5694

LORAIN, OH 44041
FAX: 330-438-5692

CERTIFICATE OF TESTS

REPUBLIC ENGINEERED PRODUCTS

September 11, 2008
PAGE 1

OF 2

PURCHASE ORD: 006200

PART NUMBER: 0740R1A103-C

ORDER NUMBER: 1369752 - 01

HEAT: 8090637

--- CHARGE ADDRESS

PURCHASE ORDER DATE: 2/11/2008

ACCOUNT NUMBER: 5645-1888-01

SCHEDULE: 6322-85

REVISION: 1

SHIP TO

WIRETECH INCORPORATED
6440 E CANNING ST
LOS ANGELES, CA 90040

WIRETECH INCORPORATED
JANICE DURAN
6440 E CANNING ST
COMMERCE, CA 90040

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4.1.1.6; 4.1.2.3; 4.2 & TENSTILE MILL & 6049A & AMD 1 COND C-1 EXC MARK & UT WAIVED AMS 6322N
FF A191-0740 FINE GRAIN VACUUM DEGAISED AIRCRAFT QUALITY COLD WORKING QUALITY SPHERODITIZ ANN
RESTRICTED CHEMISTRY

SIZE: RDS .4055 DIAM X COIL

RDS 10.1000MM DIAM X COIL

LADLE CHEMISTRY

C	MN	P	S	SI	CU	NI	CR
0.42	0.86	0.011	0.012	0.26	0.16	0.43	0.49
V	MO	SN	AT	CU	N		
0.003	0.20	0.007	0.024	0.001	0.0074		

CALCULATED TESTS

REDUCTION RATIO 1,004.7 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER
ASTM A29.

SEMT - FINISHED RESULTS

JOMINY HARDNESS TEST

SAR J406/ASTM A255

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
59 50 57 56 55 53 51 47 44 41 39 38 36 35 35 33 33 31 31 31 30 30 29 29

MACRO ETCH TEST

ASTM E381/MTI STD 430

ETCHANT: HCL TEMPERATURE: 170

AVG S K C
1 1 1

MAGNETIC PARTICLE TEST

AMS 2301 AMS2304 AMS2300

IND	AVG	IND	AVG
FREQ	FREQ	SEV	SEV
PCE 03	0	0	0

FINISHED SIZE RESULTS

DECARBURIZATION TEST

SAR J419/ASTM E1077/JIS G0558

ETCHANT - NITAL MAGNIFICATION = 100X

TOTAL
DEPTH
INCHES
PCE 12411 0.001

DECARBURIZATION TEST

SAR J419/ASTM E1077/JIS G0558

ETCHANT - NITAL MAGNIFICATION = 100X

COMPLETE

TOTAL
DEPTH

R. A. SZELICA
MANAGER TECH. SERVICES

BY JANET K. MARTINE

R. A. Szelica

CERTIFICATION
REVIEWED
ACCEPT
LFC
2



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

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www.beconsumables.com

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
5	6 EA		MS20822-3D		22890	NELSON AEROSPCE/PERM 52930			


Jason Lewis
Vice President of Quality

06/11/14



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

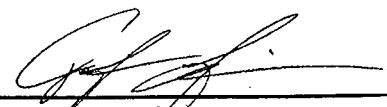
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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
14	20	EA	MS21069-04		TC193	ALCOA FASTENING/REPU	52828		



Jason Lewis
Vice President of Quality

06/11/14

Inv # 06/11/14

SHIPPER'S COPY

SHIPPER

SOLD TO		SALESMAN NO.	DATE	NUMBER
M & M AEROSPACE HARDWARE INC. P.O. BOX 025263 MIAMI, FLA. 33102		0	11/05/08	160493
<div style="background-color: black; color: white; text-align: center; font-size: 2em; font-weight: bold;">SAME</div>		<div style="text-align: center;">  <p>REPUBLIC FASTENER MFG. CORP. 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CALIF 91320 PHONE: (805) 498-6621</p> </div>		

CUSTOMER NO.	CUSTOMER P.O. NO.	ORDER DATE	RESALE	SHIPPED VIA	TERMS:
2740	OFJ839	06/04/08	YES	FEDEX NATIONAL	1% - 10 DAYS - NET 30

100000	78420	20765	1	NUT SELF LOCKING MS21069-04 1 CTNS @ 35 LBS EA 1 CTNS @ 34 LBS EA TR CERT REQ'D TO MS & NAS REV LATEST *9/23 TOTAL CARTONS 2 TOTAL WEIGHT 69 LBS
	78420	FROM LOT #1	TC193	
	0	0	2	

ECCN 9A991 C/O LR
 Schd B 7318/4-0000

145W

MINIMUM OF 10% OF THE TOTAL ORDER VALUE MUST BE PAID IN ADVANCE OF SHIPMENT		ALL INSTRUCTIONS MUST BE FOLLOWED TO THE LETTER
--	--	---



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

CERTIFICATE OF TEST

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THE REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS ARE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS CURRENT ON THE DATE OF MANUFACTURE. TEST REPORTS COVERING MATERIALS IN THESE PARTS AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS ARE ON FILE AND SUBJECT TO EXAMINATION. PARTS AS SHIPPED HAVE NEVER BEEN IN CONTACT WITH MERCURY. **THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THE LABORATORY.**

PARTS MANUFACTURED IN: ☒ U.S.A ☐ MEXICO
☐ IN ACCORDANCE WITH: DFAR 252.225.7014 ALT. I

Deefina Martinez
Signature of Quality Assurance Representative

11-03-08
Date

P.O.:	0FJ839	Part No.	MS21069-04 REV.NC
Quantity Ordered:	78,420	Date Cert Ordered:	11-03-08
Customer:	M&M AEROSPACE	Lot No.:	TC193
Description:	PLATE NUT	Procurement Spec:	NASM25027
Also Certified To:	NAS697X04L REV.10	Additional Info:	N/A

IF APPLICABLE, CHECK ONE BELOW:

- ☐ **FAA CERTIFICATION (PMA):** IT IS HEREBY CERTIFIED THAT (A) THE PARTS AND/OR MATERIALS REFLECTED HERE-IN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN FEDERAL AVIATION REGULATION, PART 21, SUB-PART K, PARAGRAPH 21.303 AND (B) ALL PARTS AND/OR MATERIALS ARE CERTIFIED NEW, CONFORMS TO THE DESIGN DATA AND ARE IN AIR WORTHY CONDITION.

Signature of Quality Assurance Representative

Date

- ☐ **TSO-C148 STATEMENT:** THE PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH TSO-C148. THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. AIRCRAFT FASTENERS APPROVED UNDER THIS TSO ARE NOT NECESSARILY INTERCHANGEABLE WITH OTHER AIRCRAFT FASTENERS APPROVED UNDER THIS TSO. FASTENERS OF SIMILAR DIMENSIONAL PROPERTIES MAY HAVE WIDELY VARYING PERFORMANCE AND METALLURGICAL PROPERTIES. SUBSTITUTION OF PARTS MAY ONLY BE DONE IF ACCEPTABLE TO OR APPROVED BY THE ADMINISTRATOR.

Signature of Quality Assurance Representative

Date



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 496-6621

QUALITY CONTROL INSPECTION REPORT

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	25027 ATTRIBUTE PLAN
TC193	LOT SIZE 83 UNDER 9 2 9 THRU 15 3 15 THRU 25 4 25 THRU 50 5 51 THRU 250 7 251 THRU 500 13 OVER 500 15	ALL SAMPLES TESTED MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS	LOT SIZE 83 UNDER 10M 5 10M THRU 50M 10 50M THRU 100M 15 OVER 100M 27

PUSH-OUT TEST					DATE 10-31-08	MIN. 40	POUNDS	PUSH-OUT REQUIREMENTS	
50	50	50	50	50				PASS / FAIL	STAMP
50	50	50	50	50					
50	50	50	50	50					

TORQUE-OUT TEST					DATE	MIN.	INCH POUNDS	TORQUE OUT REQUIREMENTS	
								PASS / FAIL	STAMP

WRENCHING TORQUE TEST					DATE	MIN.	INCH POUNDS	WRENCHING TORQUE REQUIREMENTS	
								PASS / FAIL	STAMP

TENSILE TEST					DATE 10-30-08	STAMP
TEST BOLT MS16997-04					25027 REQ. 750 LBS.	BPS-N-70 REQ. 750 LBS.
750	750	750	750	750	HIGH = 750	[X] PROOF LOAD TEST
750	750	750	750	750	LOW = 750	[] TESTED TO FAILURE
750	750	750	750	750	R = 0	(RANGE = HIGH MINUS LOW)
					X = 750	(AVERAGE TENSILE STRENGTH)
					R x 4 = 0	
					X - 4R = 750	

QCIR-007.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 496-6621

QUALITY CONTROL INSPECTION REPORT

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	25027 ATTRIBUTE PLAN
TC193	LOT SIZE 83 ACC UNDER 9 2 0 9 THRU 15 3 0 15 THRU 25 4 0 25 THRU 50 5 0 51 THRU 250 7 0 251 THRU 500 13 0 OVER 500 15 0		LOT SIZE 83 ACC UNDER 10M 5 0 10M THRU 50M 10 0 50M THRU 100M 15 0 OVER 100M 27 0

TORQUE TEST													DATE 10-31-08	STAMP
TEST BOLT MS16997-04													MAX 5.0 IN. LBS. (1st ON)	MIN 0.5 IN. LBS. (1st BRK)
CY	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK
1	2.0	1.0	3.0	1.5	3.0	2.0	3.0	1.5	3.0	1.5				
7	2.0	1.0	3.5	2.5	3.5	2.5	3.0	1.5	4.5	3.0				
15	2.0	1.0	3.5	3.0	3.5	2.0	3.5	2.0	3.0	2.5				
1	2.0	0.5	2.0	1.0	3.0	1.5	2.0	1.0	3.5	2.5				
7	1.5	0.5	2.0	1.0	3.5	2.5	1.5	1.0	4.0	3.0				
15	1.5	1.0	2.0	1.0	4.0	2.5	1.5	1.0	3.5	3.0				
1	2.5	1.5	2.5	1.5	2.0	1.0	3.5	2.0	3.0	1.5				
7	2.5	1.5	3.5	2.0	2.0	1.0	3.5	3.0	3.5	2.5				
15	3.0	2.0	3.5	2.5	2.5	1.5	4.5	3.0	4.0	3.0				
1														
7														
15														

HARDNESS TEST													DATE 10-31-08	STAMP
CONVERTED FROM 30N SCALE TO HRC													REQUIREMENT: HRC 34 TO 38	
HRC	37	38	37	36	38	37	38	38	37	37	38	36	37	38
30N	56.5	57.5	56.5	56	57.5	56.5	57.5	57.5	56.5	56.5	57.5	56	56.5	57.5
15N														

★ CLIPS AND CLIP NUTS ONLY

QCIR-008.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

QUALITY CONTROL INSPECTION REPORT

PART NAME Plate NUT		PART NUMBER MS21069-04		REV NC	NOTES also Conforms to NAS 697X04L Rev. 10
TOTAL LOT QTY 78,420	LOT NUMBER TC193	SAMPLE SIZE 500	LEVEL II 65		
INSPECTION LEVELS ACCEPT / REJECT QUANTITIES	MAJOR A - II ACCEPT <u>0</u> REJECT <u>1</u>	MAJOR B - ACCEPT <u>0</u> REJECT <u>1</u>	MINOR - ACCEPT <u>0</u> REJECT <u>1</u>	C=0	
A.Q.L.	CHARACTERISTIC DESCRIPTION	DEFECT	INSPECTION MEDIA		
MAJOR A	SELF-LOCKING FEATURE MISSING	0	VISUAL		
MAJOR B	THREAD FIT	0	THREAD GAGE		
	BEARING SURFACE SQUARENESS	0	TABLE SQUARENESS GAGE		
	SURFACE FINISH, PLATING, OR SURFACE TREATMENT	0	VISUAL		
	RIVET HOLE LOCATION AND ALIGNMENT (PLATE NUTS ONLY)	0	FUNCTIONAL ALIGNMENT OR VARIABLE GAGE		
	OVERALL HEIGHT OF NUT	0	0-6" CALIPER		
	LENGTH AND WIDTH	0	0-6" CALIPER		
MINOR	DIMENSIONS OF WRENCHING ELEMENT (WRENCHABLE NUTS ONLY)	0	0-6" CALIPER		
	LOOSE OR HANGING BURRS	0	VISUAL		
	ALL OTHER DIMENSIONAL CHARACTERISTICS NOT COVERED ABOVE	0	SMI		
QUANTITY ACCEPTED 78,420 DATE 10-31-08 ACCEPTANCE					

OCIRB009.PUB



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

QUALITY CONTROL INSPECTION REPORT

Lot Number TC193						
SAMPLE SIZE	CHARACTERISTIC DESCRIPTION	INSPECTION MEDIA	151 ARTICLE	DEFECT	ACCEPT/REJECT	PRODUCTION RELEASE DATE
NUT	MATERIAL: CAL STRIP HEAT: 288724 SIZE: .020X-.812	VENDOR CERTIFICATIONS ALLOY VERIFICATION	RFM 27	0	ACC	10/26/08
CAP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		0		
BASKET	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		0		
CLIP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATIONS ALLOY VERIFICATION		0		
15 PCS	AMS5732, AMS5525 STAINLESS ONLY AGED LOAD	TENSILE R/C HARDNESS TESTER		0		
15 PCS	AMS-H-6675A, MIL-H-6876 STEEL ONLY AUSTEMPERING LOAD 28616	TENSILE R/C HARDNESS TESTER		0	RFM 112	10/22/08
SEE LOG	AMS2410J [] AMS2411D [] SILVER PLATING LOAD	VISUAL ADHESION & THICKNESS ASTM B567		0		
SEE LOG	AMS-QQ-P-416B Class [] 1 [] 2 [] 3 CAD PLATING LOAD 21335	VISUAL ADHESION & THICKNESS ASTM B567		0	RFM 103	10/27/08
10 PCS	EMBRITTLMENT RELIEF BAKE 375°F ± 25° FOR 23 HOURS MIN. CAD PLATING LOAD 21335	23 [] NUT 48-50 [] CLIP HOUR STRESS AT ROOM TEMP. PER NASM1312, TEST 14		0	RFM 103	10/27/08
5 PCS	EMBRITTLMENT RELIEF BAKE 375°F ± 25° FOR 23 HOURS MIN. CAD PLATING LOAD	96 [] HOUR STRESS AT SERVICE TEMP. PER NASM1312, TEST 14		0		
ASQC Z1.4	GOLD CHROMATE TREATMENT TYPE II	VISUAL - WORKMANSHIP SALT SPRAY TEST OF AMS-QQ-P-416		0	RFM 103	10/27/08
SEE LOG	PASSIVATED PER AMS-QQ-P-35, AMS2700 STAINLESS STEEL ONLY	VISUAL SALT SPRAY TEST PER ASTM B117		0		
ASQC Z1.4	MAGNETIC PERMEABILITY <2.0 (AIR 1.0) FOR A FIELD STRENGTH = 200 OERSTEDS	INDICATOR PER ASTM A342-04 METHOD 3. CORROSION RESISTANT STEEL ONLY		0		
SEE LOG	NON-DESTRUCTIVE TESTING DISCONTINUITIES SAMPLE [] 100% []	MAGNETIC PARTICLE PER ASTM E1444 OR FLOURESCENT PENET. PER ASTM E1417		0		
15 PCS	DRY FILM LUBRICANT PER ASS272 TYPE 1 BATCH NO: _____	VISUAL - WORKMANSHIP ADHESION, THICKNESS SALT SPRAY TEST OF NASM1312, TEST 1		0		
8 PCS 15 PCS	MICROSTRUCTURE NAS3360 []	BPS-N-70 [] NAS3360 []		0	RFM 103	10/27/08
ASQC Z1.4	THREADS PER MIL-S-8879C, AS8879	METHOD B, SYSTEM 22		0	RFM 103	10/27/08

QCIR-006.PUB REV.J 01/13/06

CERTIFIED TEST REPORT



Calstrip Steel Corporation

7140 Bandini Blvd. * Los Angeles, CA 90040-3388
(323)726-1345 * Fax (323)722-8269

Customer: REPUBLIC FASTENER CO. Address: 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CA 91320	Order Number: S42087 / W52708 Customer PO: 13559 Shipped Date: 04/29/2008 Packlist ID: 69478
Part ID: R620.015-CS Description: HC.CR.1050.020X0.812XCOIL Drawing #: R620.015 Rev #:	Material Spec: 1050 AMS-5085G, AMS QQS-700B, QQS-635, ASTM A682-05, ASTM A684-05

HeatID: 288724

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5000	0.6200	0.0110	0.0010	0.2260	0.0450	0.0500	0.0970	0.0150	
W	V	Sn	Tl	Al	Ca	Zr	Co	N	B
	0.0010	0.0070	0.0030	0.0230				0.0090	0.0005

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test	Skid Numbers	# of Coils	Weight
50,300	72,200	27.0	HRB 77	OK	W52708-1	10	1,856
					W52708-2	10	1,726
						20	3,582

Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Comment: SOURCE- NUCOR (USA)

08-531



All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

Form #:

MARIO VARGAS Technical Services

Print Date: 5/1/2008

Page: 2



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
16	10	EA	MS21209C6-10		677081	EMHART TEKNOLOGIES L	01556		


Jason Lewis
Vice President of Quality

06/11/14

Inv # 06/11/14

Emhart Teknologies LLC

Shelter Rock Lane
Danbury CT 06810

()

Fax: ()

EMHART
TEKNOLOGIES

SHIPMENT PACKING LIST	
SID NUMBER	DATE
2530784	02/27/13

Page: 1

S B/E Aerospace Consumables Mgmt.
O P.O. Box 025263
L Miami FL 33102-5263
D
T
O

S B/E Aerospace, Inc.
H 9835 NW 14th Street
P Miami FL 33172
T
O

Affix Pro/Tracking No. To Order		Danbury, CT		Freight Collect	
0331-0149-0		Fedex Ground Inc.		OMN W42	486103
QUANTITY SHIPPED	QUANTITY NO.	QUANTITY NO.	QUANTITY NO.	QUANTITY NO.	PS# 1514435
5000.000	3585-6CN375	20.5500		070	
INS H-C 3/8-16UNC S/L MS21209-C6-10 Lot 677081					
FRT CLASS	DESCRIPTION	NO. OF CR.	NO. OF SKIDS	= TOTAL NO. OF CONTAINERS	
070	Class 70				

COLLECT ON DELIVERY \$ _____ AND REMIT TO _____

STREET _____ CITY _____ STATE _____

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED AND OF REGULATIONS OF THE UNITED STATES DEPARTMENT OF LABOR, ISSUED UNDER SECTION 14 THEREOF

PACKING SLIP

A StanleyBlack&Decker, Inc. Company

SHIPPER
EMHART TEKNOLOGIES
PER _____
PERMANENT POST OFFICE ADDRESS OF _____

Certificate of Compliance

To: B/E Aerospace, Inc.
 9835 NW 14th Street
 Miami, FL 33172

Non-transferable

Customer's Order No. 0MNW42
 Sales Order No. 486103
 Shipping Date 02/26/2013

PART NUMBER	CONTROL NUMBER	I / A / W	QUANTITY
3585-6CN375	677081 (W-5046646)	MS21209C6-10	5,000

We, Emhart Teknologies certify that all items listed above and supplied on the above mentioned Purchase Order have been inspected and comply in every way with the relevant drawings and/or specifications in accordance with your requirements.

We further certify that all stainless steel inserts supplied on the above Purchase Order have been inspected and comply in all respects with the applicable drawings and with the chemical composition and physical property requirements of AS7245 Rev A and ASME SA-479.

In addition, those stainless steel inserts covered by Military Standards MS21208, NASM21209 Rev 2, NASM122076 thru NASM122275 Rev 1, NASM124651 thru NASM124850 Rev 1, MS9018 Rev A and Military Specification NASM8846 Rev NEW are certified to conform thereof.

We also certify that all inconel inserts supplied on the above Purchase Order have been inspected and comply in all respects with the applicable drawing and with the chemical composition and physical property requirements of AS7246 Rev NEW.

We further certify that Tangless® inserts are in conformance with NAS1130 Rev 4 and NA0276 Rev 2. Tangless® inserts are licensed from KATO.

Metric Heli-Coil inserts are covered by the following Aerospace Standards MA3279 Rev B, MA3280 Rev B, MA3281 Rev B, MA3329 Rev C, MA3330 Rev C, MA3331 Rev C and MA1565 Rev A.

Emhart maintains a single standard of quality and the Quality Assurance Program has been designed to comply with the requirements of ISO 9001:2008, AS9100:2009 Rev C, and TS16949:2009.

We further certify that the parts supplied are free from mercury contamination and that mercury in any form, including mercury thermometers, was not used in manufacture or testing of the parts.

DFARS 252.225-7009 applies to articles containing specialty metals. We further certify that any tools and kits with an NSN number and Heli-Coil wire inserts supplied on the above Purchase Order comply with the requirements of section 252.225-7015 of DFARS.

The Quality Assurance Program, inspection records, chemical composition and physical analysis reports and special process certification are available for your review at our plant in Danbury, Connecticut at any time during normal business hours.

We also certify that all brass inserts supplied on the above Purchase Order have been inspected and comply in all respects with the applicable drawing and with the chemical composition and physical property requirements of ASTM B16.

Authorized Signature Arlene Graham
 Arlene Graham, QA Administrator

Firm **EMHART TEKNOLOGIES**

A StanleyBlack&Decker, Inc. Company

*This certificate of compliance is valid only when issued by EMHART, Danbury, Connecticut or its authorized distributors.
 Any correspondence should reference the control number.*

PERTH, ON
ERIN, ON
DUMAS, AR
LANCASTER, SC

613-267-3752 FAX 613-267-5617
519-833-9632 FAX 519-833-2213
870-382-2980 FAX 870-382-6988
803-283-3353 FAX 803-283-6303



FOND DU LAC, WI
UNION, IL
PERRIS, CA

920-926-0609 FAX 920-926-0652
815-923-2131 FAX 815-923-2126
951-657-2105 FAX 951-943-6061

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS
EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: sales@centralwire.com

CENTRAL WIRE INDUSTRIES LTD.
1 NORTH STREET, PERTH, ONTARIO, CANADA K7H2S2
TEL: 613-267-3752 1-888-267-3761
FAX: 613-267-3929/2951 SALES FAX: 613-267-5617

CERTIFICATE OF CONFORMANCE

SOLD
TO

EMHART TEKNOLOGIES LLC
ACCOUNTS PAYABLE
4 SHELTER ROCK LANE
DANBURY CT 06810
USA

SHIP
TO

EMHART TEKNOLOGIES LLC
SHELTER ROCK LANE
DANBURY CT 06810
USA

CUSTOMER'S PO NO. 727110	TYPE OF CERT Customer	CUSTOMER 110394	ORDER NO. 2024667	WORK ORDER 3 5046646	DATE SHIPPED 7/24/12
SPECIFICATIONS: MS2 Issue CC, AS7245 Rev.A paragraphs 2 & 3.1 p/n: WR-WC-0600					

ITEM DESCRIPTION		
DESCRIPTION CHQ 304 FULL HARD Bright .0600 500LB PLReel Clean	DESCRIPTION Melt mill NAS Country of origin USA	SPEC. CLASS HEAT C6J5 QTY SHIP 1375

CHEMICAL ANALYSIS						
C .0619	SI .4360	MN .5150	P .0295	S .0023	CR 18.2365	NI 8.000
MO .1060	FE Balance	CU .2340	N .0406	CERTIFIED COPY OF ORIGINAL		

MECHANICAL PROPERTIES						
AS SHIPPED PROPERTIES:						
DIAMETER .0596"	TENSILE 188.700 KSI	YIELD 166.800 KSI	ELONGATION 2.100 %	Y/T RATIO 0.880	CHEMICAL ANALYSIS O.K. AUG 01 2012 1580	
AFTER HEAT TREAT PROPERTIES:						

SCANNED

Wire was solution annealed at 1900F min before final draw
Passed cold bend, coil and stretch test. Tested to ASTM A479-04
Raw material is DFARS 252.225-7009 compliant. Rod produced by USA

The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours,

A. Thomas
AUTHORIZED SIGNATURE



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 736512 9
Customer: 007065 001
Mail To:
CENTRAL WIRE
1 NORTH STREET
PERTH, ON K7H2S2

Ship To:
CENTRAL WIRE
1 NORTH STREET
PERTH, ON K7H2S2

Date: 5/13/2012 Page: 1

Steel: 304

Finish: HRAP

Your Order: 2502899

NAS Order: DS 0000743 01

Corrosion: ASTM A262 Prac A/E OK

PRODUCT DESCRIPTION:

Wire Rod HRAP
UNS S30400, EN 10204 3.1B
ASTM A555/05, ASTM A580/08 (CHEM ONLY)

CERTIFIED COPY OF ORIGINAL

Kylene Abraham
SIGNATURE
QA Administrator
TITLE

REMARKS:

COMPLIES W/REQUIREMENTS OF DFARS EU DIRECTIVE 2002.95.
EC. RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
WC3285 8		.2165		2,516		1	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	CM	C	CO	CR	CU	MN	MO	N	NI	P
C6J5	US	.0619	.0455	18.2365	.2340	.5150	.1060	.0406	8.0000	.0295
		S	SI							
		.0023	.4360							

MECHANICAL PROPERTIES

Product Id	1 d o i o r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 2"
WC3285 8	R L	134.00	32.19	94.09	81.21	56.95

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

Eric Hess
ERIC HESS

5/13/2012



TORQUE TEST REPORT

Sample Report

PART NUMBER 3585-6CN375	WIRE LOT NUMBER W-5046646	WORK ORDER NUMBER 677081	WORK ORDER QUANTITY 21000
THREAD SIZE 3/8-16 S/L	SPECIFICATION NUMBER PP-3	UNITS LB-IN	MACHINE NUMBER 330

PLATED ☐

AFTER H/T ☐

BEFORE H/T ☐

1st PIECE ☐

IN-PROCESS ☐

FINAL ☒

S P E C S	1st CYCLE				7th CYCLE		15th CYCLE	
	INSTALLATION		BREAKAWAY		INSTALLATION		REMOVAL	
	80-LB-IN	MAX	12-LB-IN	MIN	80-LB-IN	MAX	12-LB-IN	MIN
TEST RESULTS								
1	60.8	MAX	56.6	MIN	48.2	MAX	38.2	MIN
2		MAX		MIN		MAX		MIN
3		MAX		MIN		MAX		MIN
4		MAX		MIN		MAX		MIN
5		MAX		MIN		MAX		MIN
6		MAX		MIN		MAX		MIN

DISPOSITION ACCEPTED	INSPECTOR 106728	DATE 1/23/2013
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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
11	20	EA	MS21047L08		M010203-000	ALCOA KAYNAR FULLERT	15653		


Jason Lewis
Vice President of Quality

06/11/14

Alcoa Fastening Systems Aerospace Products Fullerton Operations 800 S. STATE COLLEGE BLVD FULLERTON, CA 92831		TEST REPORT		NO. 8152074 Lot No. M010203-000		Page 1 of 2		
Supplier Item No. BAY170		Supplier Part No. K1000-08						
Interchange Part No. K1000-08 Rev. A		Interchange Part No. MS21047L08 Rev. 2		Interchange Part No. NAS1023A08 Rev. 5				
Interchange Part No. NAS680A08 Rev. 10		Interchange Part No.		Interchange Part No.				
Manufactured Quantity 34800		Mfg. Date 09/03/10		Generic Description NUT ANCHOR TWO LUG		Thread Size .1640-32		
HEAT TREAT AMS-H-6875		PLATE/COAT AMS-QQ-P-416 TYII CL2		LUBRICATION ASS272 TY I		PERFORMANCE NASM25027		
Material Spec. # AMS 5085-G		Mill Heat No. BTAN1004		Control Heat No. CC16609		Material Supplier CALSTRIP INDUSTRIES INC		
Special Process Requirements: THREADS AND GAUGING PER AS8879 AND ANSI B1.3M SYS. 22 MIN EQUALS BKWY MAX EQUALS INST.								
TEST RESULTS								
----- TEST ----- No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 010 TORQUE TEST MAX 15, MIN 1.5 (CYCLES 1,7,15)	IN#	1	1	10.10	14.20		1.50	15.00
			7	9.60	9.90			
			15	7.80	8.10			
		2	1	9.15	11.55			
			7	9.75	9.85			
			15	6.65	7.25			
		3	1	9.60	12.35			
			7	11.00	11.00			
			15	7.80	8.40			
		4	1	10.45	12.90			
			7	11.30	10.20			
			15	6.55	7.20			
		5	1	10.35	13.30			
			7	10.00	10.40			
			15	7.65	8.15			
		6	1	9.90	12.90			
			7	10.55	8.75			
			15	7.40	7.05			
		7	1	13.15	14.90			
			7	9.95	9.85			
			15	6.20	6.80			
		8	1	14.60	14.45			
			7	7.80	9.10			
			15	5.85	6.70			
		9	1	12.00	14.55			
TEST RESULTS - Continued on next page								
THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED								
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						 CHRISTOPHER J. FRICKSON QA MGR.		

**Alcoa
Fastening
Systems**

Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831

TEST REPORT

NO.

Page 2 of 2

8152074

Lot No.

M010203-000


Supplier Item No.
BAY170Supplier Part No.
K1000-08

TEST RESULTS - Continued from previous page.

TEST No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
2 - 020 TENSILE TEST MIN 1720 LBS	LBS		7	9.05	10.15			
			15	5.55	6.80			
		10	1	10.60	13.10			
			7	8.00	9.00			
			15	6.55	6.65			
		1	1	2930.00			1720.00	
		2	1	1822.00				
		3	1	1820.00				
		4	1	1820.00				
		5	1	1821.00				
3 - 050 EMBRITTLEMENT 23 HOURS	HRS	6	1	1820.00				
		7	1	1820.00				
		8	1	1820.00				
		9	1	1820.00				
		10	1	1820.00				
		1	1			Pass		
		2	1			Pass		
		3	1			Pass		
		4	1			Pass		
		5	1			Pass		
4 - 080 PUSH-OUT MIN 80 LBS	LBS	6	1			Pass		
		7	1			Pass		
		8	1			Pass		
		9	1			Pass		
		10	1			Pass		
		1	1	80.00			80.00	
		2	1	80.00				
		3	1	80.00				
		4	1	80.00				
		5	1	80.00				
5 - 110 HARDNESS HRC	HRC	6	1	80.00				
		7	1	80.00				
		8	1	80.00				
		9	1	80.00				
		10	1	80.00				
		1	1	42.00	42.00			

THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED

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CHRISTOPHER J. FRICKSON QA MGR.

SHIPPER#: 9947998293

Rev. 12/02 Form 11199

CERTIFIED TEST REPORT



Calstrip Steel Corporation

REGISTERED ISO 9001:2000

7140 Bandini Blvd. * Los Angeles, CA 90040-3388
(323)726-1345 * Fax (323)722-8269

Customer: ALCOA FASTENING SYSTEMS Address: P.O. BOX 1186 PITTSBURGH, PA 15230	Order Number: S60503 / W73852 Customer PO: 220446308 Shipped Date: 09/01/2010 Packlist ID: 100461
Part ID: 082638-CS Description: CR1050 .032 X 1.187 X COIL Drawing #: 082638 Rev #:	Material Spec: AMS 5085-G, ASTM A827-02, MS 100 REV.7

HeatID: BTAN1004

CHEMICAL ANALYSIS

CC16609

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Rest
0.5153	0.7289	0.0090	0.0017	0.1749	0.0757	0.1089	0.1404	0.0188	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0009	0.0178	0.0019	0.0300	0.0017			0.0074	

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test
			HRB 78	OK
Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Skid Numbers W73852-1 # of Coils 6 Weight 1.566

Comment: SOURCE- DUFERCO FARRELL (USA)/DFAR COMPLIANT.

9/1/10

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

MARIO VARGAS Technical Services

Form #

Print Date: 9/1/2010

SHIPPER#: 9947998293

CERTIFICATE OF TEST FOR COIL 7519749B HEAT# BTAN1004

SOLD TO: CALSTRIP STEEL CORPORATION 7140 BANDINI BLVD LOS ANGELES, CA 90040 SHIP TO: CALSTRIP STEEL CORPORATION C/O OMEGA STEEL INC. 7140 BANDINI BLVD LOS ANGELES, CA 90040	ORDER SPECIFICATIONS CUSTOMER PO: 4779CS-4 RESULTS FOR COIL: 7519749B PRODUCT TYPE: CR PRODUCT CATEGORY: NA ORDERED GRADE: 1050 ORDERED GAUGE: .0321 NOM GAUGE TOL: +.0010/-0.0010 ORDERED WIDTH: 42.0000 MIN WIDTH TOL: +.1875/-0.0000			ORDER: 251209 EDGE: CUT FINISH: 2040 AA HARDNESS: 82 RB MAX HARDNESS RANGE: AM 75 RB MAX YIELD: TENSILE: ELONGATION: BEND:	ITEM: 50232931 INDUSTRY SPEC: ASTM A556 CUSTOMER SPEC: CUSTOMER PART #: CERT #: 2 CUSTOMER NOTE:
--	--	--	--	---	---

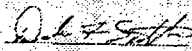
JOB #	COIL #	SIZE	WGT	HARDNESS
251209-03	7519749			67-80T
	7519749A	.0321 x 42.0000	18380	
	7519749B	.0321 x 42.0000	18700	
HEAT# BTAN1004				
C: .52 - MN: .73 - P: .009 - S: .002 - SI: .175 - AL: .030 - CU: .140 - NI: .076 - CR: .109 - MO: .019 - SN: .018 - TI: .002 - V: .001 - NB: .003 - N: .0074 - B: * - CA: .0017 - CE: * - ZR: * - AS: * - SB: *				

JOB #	COIL #	SIZE	WGT
251209-03	7519749A	.0321 x 42.0000	18380
HEAT# BTAN1004			
C: .52 - MN: .73 - P: .009 - S: .002 - SI: .175 - AL: .030 - CU: .140 - NI: .076 - CR: .109 - MO: .019 - SN: .018 - TI: .002 - V: .001 - NB: .003 - N: .0074 - B: * - CA: .0017 - CE: * - ZR: * - AS: * - SB: *			

SHIPPER#: 9947998293

Date Created: Tuesday, 08 February, 2011 11:41:16 AM SHIPPER#: 9947998293

Elements with a reported value of *** were undetected, and thus are less than .001%.
Manufactured in the United States of America
DUFERCO FARRELL CORPORATION certifies that the material listed herein has been tested in accordance with the methods prescribed in the governing specifications. Based upon the results of such testing, the material conforms to the specifications. All testing has been performed using the current revision of the testing specifications.


Dale F. Siddons
Supervisor - Metallurgical Lab



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
13	500	EA	MS21059L3K		5376916-000	ALCOA FASTENING/REPU	52828		


Jason Lewis
Vice President of Quality

06/11/14

Alcoa Fastening Systems Aerospace Products Fullerton Operations 800 S.STATE COLLEGE BLVD FULLERTON, CA 92831		TEST REPORT		Page 1 of 3				
		NO. 8172185		Lot No. 5376916-000				
Supplier Item No. BG4250		Supplier Part No. F5000-3BC						
Interchange Part No. F5000-3BC		Interchange Part No. MS21059L3K Rev. 1		Interchange Part No. NAS1031A3K Rev. 6				
Interchange Part No. NAS1031P3K Rev. 6		Interchange Part No. NAS686A3K Rev. 13		Interchange Part No.				
Manufactured Quantity 28050		Mfg. Date		Generic Description NUT ANCHOR TWO LUG				
HEAT TREAT AMS-H-6875		PLATE/COAT AMS-QQ-P-416 TYII CL2		LUBRICATION AS5272 TY I				
PERFORMANCE NASM25027				NON-DESTRUCT ASTM E1444 SAMPLE				
Material Spec. # 1 AMS 5085-G		Mill Heat No. BTAN1391		Control Heat No. CC16634D				
				Material Supplier CALSTRIP INDUSTRIES INC				
Material Spec. # 2 AMS 5085-G		Mill Heat No. BTAN0978		Control Heat No. CC16635				
				Material Supplier CALSTRIP INDUSTRIES INC				
Special Process Requirements: THREADS AND GAUGING PER AS8879 AND ANSI B1.3M SYS. 22 MIN EQUALS BKWY MAX EQUALS INST.								
TEST RESULTS								
TEST No. Description	JOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 010 TORQUE TEST	IN#	1	1	7.95	8.70		2.00	18.00
			7	6.30	6.35			
			15	5.65	5.75			
		2	1	6.30	8.00			
			7	4.88	5.60			
			15	5.05	5.45			
		3	1	5.10	5.75			
			7	3.85	4.25			
			15	3.85	3.85			
		4	1	8.85	10.00			
			7	7.20	7.70			
			15	6.80	6.50			
		5	1	7.70	8.00			
			7	5.75	5.85			
			15	5.55	5.40			
		6	1	6.85	7.80			
			7	5.00	5.35			
			15	4.90	4.95			
		7	1	7.25	7.30			
			7	5.40	5.55			
			15	5.00	4.85			
TEST RESULTS - Continued on next page								
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					 MICHELE M. VARELA, QA MOR.			

Alcoa Fastening Systems  Aerospace Products Fullerton Operations 800 S.STATE COLLEGE BLVD FULLERTON, CA 92831	<h1>TEST REPORT</h1>	NO. 8172185 Page 2 of 3
	Lot No. 5376916-000	
Supplier Item No. BG4250	Supplier Part No. F5000-3BC	

TEST RESULTS - Continued from previous page.

TEST No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
4 - 050 EMBRITTLEMENT 23 HOURS	HRS	8	1	5.55	6.60			
			7	4.35	4.45			
			15	4.20	3.95			
		9	1	7.20	8.20			
			7	6.70	6.50			
			15	5.45	5.65			
		10	1	5.05	6.35			
			7	3.90	4.20			
			15	3.45	3.30			
		1	1			Pass		
		2	1			Pass		
		3	1			Pass		
		4	1			Pass		
		5	1			Pass		
		6	1			Pass		
5 - 070 TORQUE-OUT	LBS	7	1			Pass		
		8	1			Pass		
		9	1			Pass		
		10	1			Pass		
		1	1	60.00			60.00	
		2	1	60.00				
		3	1	60.00				
		4	1	60.00				
		5	1	60.00				
		6	1	60.00				
6 - 080 PUSH-OUT	LBS	7	1	60.00				
		8	1	60.00				
		9	1	60.00				
		10	1	60.00				
		1	1	100.00			100.00	
		2	1	100.00				
		3	1	100.00				
		4	1	100.00				
		5	1	100.00				
		6	1	100.00				
7 - 110 HARDNESS	HRC	7	1	100.00				
		8	1	100.00				
		9	1	100.00				
		10	1	100.00				
		1	1	42.00	44.00			

TEST RESULTS - Continued on next page.

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MICHELE M. VARELA, QA MGR.

**Alcoa
Fastening
Systems**

 Aerospace Products
 Fullerton Operations
 800 S.STATE COLLEGE BLVD
 FULLERTON, CA 92831

TEST REPORT

NO.

8172185

Page 3 of 3

Lot No.

5376916-000

 Supplier Item No.
BG4250

 Supplier Part No.
F5000-3BC
TEST RESULTS - Continued from previous page

----- TEST ----- No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
HRC								
11 - 020 TENSILE TEST	LBS	1	1	3030.00			2460.00	
2460 lbs min		2	1	2600.00				
		3	1	2600.00				
		4	1	2600.00				
		5	1	2600.00				
		6	1	2600.00				
		7	1	2600.00				
		8	1	2600.00				
		9	1	2600.00				
		10	1	2600.00				

Component #

 Lot Number
1 5362075-000

 Supplier Part No.
F5000-3BCFB

 Supplier Item No.
BG4270

Manufactured Quantity

 Mfg. Date
06/20/11

 Generic Description
BASKET

Thread Size

 Material Spec. #
AMS 5085-G

 Mill Heat No.
BTAN1391

 Control Heat No.
CC16634D

 Material Supplier
CALSTRIP INDUSTRIES INC

Component #

 Lot Number
2 M010271-000

 Supplier Part No.
F5000-3XN

 Supplier Item No.
BG4350

Manufactured Quantity

 Mfg. Date
09/09/10

 Generic Description
NUT-FLOATING

 Thread Size
.1900-32

 Material Spec. #
AMS 5085-G

 Mill Heat No.
BTAN0978

 Control Heat No.
CC16635

 Material Supplier
CALSTRIP INDUSTRIES INC
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MICHELE M. VARELA, QA MGR.

CERTIFIED TEST REPORT



Calstrip Steel Corporation

REGISTERED ISO 9001:2000

7140 Bandini Blvd. • Los Angeles, CA 90040-3388
(323)726-1345 • Fax (323)722-8269

Customer: ALCOA FASTENING SYSTEMS Address: P.O. BOX 1186 PITTSBURGH, PA 15230	Order Number: S61931 / W74466 Customer PO: 220458832 Shipped Date: 10/01/2010 Packlist ID: 101491
Part ID: 081419-CS Description: CR1050 .020 X .750 X COIL Drawing #: 081419-CS Rev #: 02/17/06	Material Spec: AMS 5085G, ASTM A827-02, MS 100 REV.7

HeatID: BTANI391 ✓

CHEMICAL ANALYSIS

CC16634D

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5110	0.6329	0.0087	0.0059	0.2007	0.0659	0.1123	0.1455	0.0173	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0014	0.0223	0.0021	0.0470	0.0011			0.0070	

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test
			HRB 72	OK

Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

<u>Skid Numbers</u>	<u># of Coils</u>	<u>Weight</u>
W74466-1	12	1,704
W74466-2	12	1,705
W74466-3	12	1,692
	36	5,101

Comment: SOURCE- DUFERCO FARRELL (USA)

10/2/10

K324

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

MARIO VARGAS Technical Services

Form #:

Print Date: 10/1/2010

SHIPPER#: 9948033728

Date Created: Tuesday, 22 May, 2012 05:21:14 PM SHIPPER#: 9948033728

SHIPPER#: 9948033728

DUFERCO FARRELL CORP.
15 ROSEBUD BOULEVARD
FARRELL, PA 16121
PHONE 724-883-6464

Duferco
Farrell Corporation

CERTIFICATE OF TEST FOR COIL 7519668A HEAT# BTAN1391

ORDER SPECIFICATIONS

SOLD TO: CALSTAR STEEL CORPORATION 7140 BAYVIEW BLVD. LOS ANGELES, CA 90040		SHIP TO: CALSTAR STEEL CORPORATION 7140 BAYVIEW BLVD. LOS ANGELES, CA 90040	
CUSTOMER PO: 4779CS-1		ORDER# 251204	
ITEM: 50225228		MOUNTING SPEC: ASTM A598	
QUANTITY: 2		CUSTOMER PARTS:	
HARDNESS RANGE: 145-160 HRA		TENSILE: 75-85 KSI	
ELONGATION: 10-15%		TEMPER: 70-80 F	
WIDTH TOL: +1/8" -0.000		SEMI: 1/8"	

J08 # - COL # SIZE WTG HARDNESS

251204-01 7519668A 1201 x 48.0000 18310 18730 82-15T

HEAT# BTAN1391
C: 51 - MW: 83 - P: 009 - S: 006 - ST: 201 - AL: 047 - CL: 146 - NK: 088 - CR: 112 - MC: 017 - SN: 022 - TE: 002 - V: 001 - NB: 004 - NT: 0070 - B: - - CA: 0011 - CE: - ZR: - - AS: - - SB: -

Elements with a reported value of " " were undetected, and thus are less than .001%.

Manufactured in the United States of America
DUFERCO FARRELL CORPORATION certifies that the material listed herein has been tested in accordance with the methods prescribed in the governing specifications. Based upon the results of such testing, the material conforms to the specifications. All testing has been performed using the current revision of the testing specifications.

Delta F Siddons
Supervisor - Metallurgical Lab

7/25/10

05/26/2010 08:38
CSTM6105

CERTIFIED TEST REPORT**Calstrip Steel Corporation**

REGISTERED ISO 9001:2000

7140 Bandini Blvd. * Los Angeles, CA 90040-3388

(323)726-1345 * Fax (323)722-8269

Customer: ALCOA FASTENING SYSTEMS	Order Number: S60563 / W73899
Address: P.O. BOX 1186	Customer PO: 220446308
PITTSBURGH, PA 15230	Shipped Date: 09/03/2010
	Packlist ID: 100573
Part ID: 083219-CS	Material Spec: AMS 5085-G, ASTM A827-02,
Description: CR1050.038 X .750 X COIL	MS 100 REV.7
Drawing #: 083219-CS	
Rev #: 02/17/16	

HeatID: BTAN0978

CHEMICAL ANALYSIS

CC16635

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5380	0.7130	0.0081	0.0012	0.1640	0.0519	0.1150	0.1300	0.0119	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0015	0.0222	0.0016	0.0290	0.0012			0.0071	

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test	Skid Numbers	# of Coils	Weight
			HRB 78	OK	W73899-1	11	1,530
					W73899-2	11	1,516
					W73899-3	10	1,336
					W73899-4	10	1,402
					W73899-5	10	1,352
					W73899-6	10	1,374
					W73899-7	11	1,424
					W73899-8	11	1,574
						84	11,508

Comment: SOURCE- DUFERCO FARRELL (USA)

9/7/10 K324

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

MARIO VARGAS

Technical Services

Form #:

Print Date: 9/3/2010

SHIPPER#: 9948033728

Interco
Farrell Corporation

15 ROEMER BOULEVARD
FARRELL, PA 16121
PHONE: 724-683-6464

CSTM8105

CERTIFICATE OF TEST FOR COIL 1637965A HEAT# BTAN0978

LD TO: CALSTRIP STEEL CORPORATION
7140 BANDINI BLVD
LOS ANGELES, CA 90040

PO TO: CALSTRIP STEEL CORPORATION
C/O OMEGA STEEL INC.
7140 BANDINI BLVD.
LOS ANGELES, CA 90040

CUSTOMER PO: 4779CS-5

RESULTS FOR COIL: 1637965A
PRODUCT TYPE: CR

PRODUCT CATEGORY: NA

ORDERED GRADE: 1050
ORDERED GAUGE: .0381 NOM
GAUGE TOL: +.0010/-0.0010
ORDERED WIDTH: 42.0000 MIN
WIDTH TOL: +.1875/-0.0000

ORDER SPECIFICATIONS

ORDER: 251211

EDGE: CUT
FINISH: 2040 AA

HARDNESS: 82 RS MAX
HARDNESS RANGE: 75 TO 85 MAX

YIELD:
TENSILE:
ELONGATION:
BEND:

ITEM: 50232933

INDUSTRY SPEC: ASTM A508

CUSTOMER SPEC:

CUSTOMER PART #:

COIL # 2

CUSTOMER NOTE:

I#	COIL #	SIZE	WGT	HARDNESS
211-02	1637965			64-30T
	1637965A	.0381 x 42.0000	15050	
	1637965B	.0381 x 42.0000	16380	

EAT# BTAN0978

C: .54 - MN: .71 - P: .008 - S: .001 - SI: .164 - AL: .029 - CU: .130 - NI: .052 - CR: .115 - MO: .012 - SN: .022 - TI: .002 - V: .002 - NB: .004 - N: .0071 - B: * - CA: .0012 - CE: * - ZR: * - AS: * - SB: *

I#	COIL #	SIZE	WGT
211-02	1637965A	.0381 x 42.0000	15050

EAT# BTAN0978 ✓

C: .54 - MN: .71 - P: .006 - S: .001 - SI: .164 - AL: .029 - CU: .130 - NI: .052 - CR: .115 - MO: .012 - SN: .022 - TI: .002 - V: .002 - NB: .004 - N: .0071 - B: * - CA: .0012 - CE: * - ZR: * - AS: * - SB: *

SHIPPER#: 994803728

Date Created: Tuesday, 22 May 2012 05:21:14 PM SHIPPER#: 994803728

ments with a reported value of *** were undetected, and thus are less than .001%.

Manufactured in the United States of America

FERCO FARRELL CORPORATION certifies that the material listed herein has been tested in accordance with the methods prescribed in the governing specifications. Based upon the results of such testing, the material conforms to the specifications. All testing has been performed using the current revision of testing specifications.

Dale F Siddons
Dale F Siddons
Supervisor - Metallurgical Lab



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
20	20	EA	NAS509-3		14066	AUTOMATIC SCREW MACH	92595		


Jason Lewis
Vice President of Quality

06/11/14



Automatic Screw Machine Products Co.
709 2nd Ave. SE
P.O. Box 1608
Decatur, AL 35601

Phone: 256-353-1931
Fax: 256-355-3612

Certification

Ship To:

B/E Aerospace Consumables Management
9835 NW 14th Street

Miami, FL 33172

Sold To:

B/E Aerospace Consumables Management
P.O. Box 025263

Miami, FL 33102-5263

Ship Date: 4/4/13

Sales Order: 715680

Your PO: OKKB57

Shipped Qty: 16,195

Part #: NAS509-3

Our Part: NAS509-3

Lot #: 14066

Rev. 7

Parts contained in this shipment have been manufactured and inspected in accordance with applicable drawings and specifications.

While in our facility these parts did not come in contact with mercury.

These parts were manufactured in the U.S.A.

This certification shall not be reproduced, except in full, and applies only to the product shipped within.

This material has been represented to Automatic SMP to be in compliance with DFARS Clause 252.225.7009.

Class I Ozone Depleting Substances (ODS) were not used in the design, test, manufacture, integration and assembly, handling, transportation, operations, maintenance or disposal of the hardware/components by Automatic SMP delivered on this order.

B/E Aerospace, Inc. - Consumables Management
Self Release

Signature and Stamp: *Muanda Parker*

Date: 4/4/13

AD
23

Sincerely,

Muanda Parker

Quality Assurance Representative



155 CHATHAM STREET
HAMILTON, ONTARIO CANADA L8P2B7

CERTIFICATE OF TESTS

REPUBLIC ENGINEERED PRODUCTS

August 10, 2006

PURCHASE ORD: 14-10699
PART NUMBER: IAC20532
ORDER NUMBER: 0437388 - 01
HEAT: 8995558

PURCHASE ORDER DATE: 1/6/2006
ACCOUNT NUMBER: 5613-1784-01
SCHEDULE: 3083-2
REVISION: 1

PAGE 1 OF 2

CHARGE ADDRESS

A M CASTLE & CO
3400 N WOLF RD
FRANKLIN PARK, IL 60131

SHIP TO

A M CASTLE & CO
DARRYL BOLLING
26800 MILES AVE
BEDFORD HTS, OH 44146

MATERIAL DESCRIPTION

COLD FINISHED STEEL BARS ALLOY ASTM A29-05 FG AMS 2301J AMS S 6758A COND D-4 REVISION DTD 09/03 MIL S 6758B COND D-4 EXC MARK AMS 6348C AMS 6370L CASTLE METALS SPEC G41300-21 REVISION 1.1 DTD 01/04/05 UNS# G41300 HF-AISI-4130 FINE GRAIN VACUUM DEGAUSSED AIRCRAFT QUALITY COLD DRAWN NORM BEFORE CD LIGHT WEIGHT LIFT
SIZE: HEX .3750 DIAM X 10FT 0.0000IN MIN/13FT 0.0000IN MAX
HEX 9.5250MM DIAM X 3048.0000MM MIN/3962.4000MM MAX

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR
0.29	0.55	0.012	0.016	0.26	0.15	0.14	1.00
V	MO	SN	AL	CB	N		
0.002	0.22	0.007	0.026	0.000	0.0064		

CALCULATED TESTS

REDUCTION RATIO 1,067.5 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM A29.

SEMI - FINISHED RESULTS

JOMINY HARDNESS TEST

SAE J406/ASTM A255

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
51 51 49 47 42 39 36 33 32 31 30 29 28 28 27 27 26 26 25 24 24 24

MACRO ETCH TEST

ASTM E381/MIL STD 430

AVG S R C
1 1 1

MAGNETIC PARTICLE TEST

AMS 2301 AMS2304 AMS2300

IND	AVG	IND	AVG
FREQ	FREQ	SEV	SEV
PCE 03	0	0	0

FINISHED SIZE RESULTS

DECARBURIZATION TEST

SAE J419/ASTM E1077

ETCHANT = NITAL MAGNIFICATION = 100X

TOTAL
DEPTH
INCHES

PCE 01 0.010

TENSILE TEST STANDARD FORMAT

TENSILE	YIELD(0.2%)	YIELD(0.01)
PROPORTIONAL RA	E	
PSI	PSI	PSI

PCE 01 111700 106300
44.7 8.6

AMAN BHATIA

BY LORNE L. MACNEIL

GEN. MGR. COLD FINISHED OPERATIONS

Amn Bhatia

Automatic Screw Machine

Our PO # 72830

Weight of Material 4035

Specification Required AMS 6320

Castle Metals

3900 Pinson Valley Parkway
Birmingham, AL 35277



YIELD(0.02) YIELD(0.5 EUL)
PSI PSI
LIMIT



Republic

155 CHATHAM STREET
HAMILTON, ONTARIO CANADA L8P2B7

CERTIFICATE OF TESTS

REPUBLIC ENGINEERED PRODUCTS

August 10, 2006

PURCHASE ORD: 14-10699
PART NUMBER: IAC20532
ORDER NUMBER: 0437388 - 01
HEAT: 8995558

PURCHASE ORDER DATE: 1/6/2006
ACCOUNT NUMBER: 5613-1784-01
SCHEDULE: 3083-2
REVISION: 1

PAGE 2 OF 2

HARDNESS TEST ASTM E10/ASTM A370 HBW
MID-RADIUS
PCE 01 235

NOTES

REPUBLIC ENGINEERED PRODUCTS HEREBY CERTIFY THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, ASTM E1019 AND/OR ASTM E1085.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A
MELT METHOD: BLOOM RED. RATIO: 1067.5

END OF DATA

CC

END OF DATA

FAX SHIP TO 1 COPY ATTENTION DARRYL BOLLING 847-455-9102
WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA
FILE 1 COPY

AMAN BHATIA
GEN. MGR. COLD FINISHED OPERATIONS

BY LORNE L. MACNEIL

Amn Bhatia



Certification

Bodycote - Athens

14066

Order No.: 97701

Date: 01/11/2013

Entry Date: 01/08/2013

Page: 1 of 1

To:

Automatic Screw Machine Prod.

P O BOX 1608

709 2nd Ave. S.E.

DECATUR AL 35602

Purchase Order No.: 92508

Packing List No.: JOB# 14066

Material: 4130

We are pleased to provide you with the following Certification

Quantity	Part Number / Part Name / Part Description	Pounds
16,805	NAS509-3 NUT, CD, THK, CAD MATERIAL: 4130 HEAT TREAT TO RC 34-38 PER AMS-H-6875B (2759/1E), DECARB TEST PER FF-N-836E	69.00

Insp. Type	Scale	Minimum	Maximum	Number	Other
Customer Requirements:					
Hardness	HRC	47.	55.	AS QUENCHED - 1	
Hardness	HRC	34.	38.	FINAL INSPECTION - 15 PCS	

Results:

Hardness HRC 34.5 38.

CARB/DECARB TEST = PASS (SEE ATTACHED TEST REPORT)

Heat treat accepted
AD 4
Stan Reeves 1/14/13

This is to certify that the above parts have been processed to the above specification.
Representative samples have been tested and found to conform to this specification.

QSF107 REV 1

Chris Williams
Chris Williams
Quality Manager
Bodycote

AMS 2759 1E/2E / FF-N-836 "E" Decarb/Carb Test Report

Customer Name: Automatic Screen	Cust. P.O. # 92508	Cust. W.O. # 14066	Bodycote S/O. # 97701	Bodycote Furn. # AC3
Part No.: NASS09-3	Quantity: 16805	Material Type: 4130		

Spec.: AMS 2759 1E/2E FF-N-836 "E" Sample #: 8111	Decarb/Carb Test Steps: 1. Prepare sample for microhardness testing per ASTM-E384. Use Vickers or Knoop tester with 200 to 500 gram load. 2. Measure hardness from 0.001" thru 0.010" increments. Record below. (Note: stagger readings such that deformation band surrounding impressions do not impinge each other.) 3. Average readings 0.006" thru 0.010" and record average. 4. Subtract 20 Vickers or Knoop points for determination of Decarb, and add 20 Vickers or Knoop points for determination of Carb. Record results below. <u>ACCEPTANCE CRITERIA: (Ref. AMS-2759/1E/2E section 3.5.1 & 3.6.1)</u> Material under 220 ksi (46 RC) Maximum Decarb allowed = 0.005", Maximum carburization allowed = 0.002" Material over 220 ksi (46 RC) Maximum Decarb allowed = 0.006", Maximum carburization allowed = 0.0003" <u>ACCEPTANCE CRITERIA: (FF-N-836 "E")</u> Table II
---	--

Decarburization - Carburization Test Results

Distance from Surface (inches)	HV-KHN	Distance from Surface (inches)	HV-KHN	Remarks
0.001	555.4	0.001	579.1	
0.002	556.9	0.002	569.8	
0.003	568.2	0.003	566.4	NONE
0.004	569.4	0.004	578.2	NONE
0.005	575.5	0.005	566.0	Acceptable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Average of 0.006" thru 0.010" =		571.9		Test Performed by: <i>Chris Waller</i>

Intergranular Oxidation Test Results

Sample was prepared & Tested per & AMS-2759 1E/2E section 3.5.1 & 3.6.1	
IGO Results Depth = N/A	Acceptable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Test Performed By: <input type="checkbox"/> In House / Inspector: _____	
<input type="checkbox"/> Outside Lab: _____ (Ref. Report #: _____)	

14006

Approved by Bruce Hogie
Revision Date: 02/13/2013

CERTIFICATE OF COMPLIANCE

SUPPLIER: Beringer Plating Inc.
1211 DeValera Ave.
Akron, OH 44310
330-633-8409 Fx 330-633-8447
sales@beringerplating.com

CUSTOMER: Automatic Screw Machine Products

Beringer Number: 73260

Note:

P.O. Number: 93376

Part Number: NAS509-3

Rev.

Quantity 16,195 **pcs**

Specifications: Cadmium Plate per AMS-QQ-P-416C Type II, Class 2

Mercury Free Clause: No possibility exists for mercury contamination to occur during processing or testing of parts on this contract.

Coating Thickness: .00037 inches

Embrittlement Relief

Baked: 23 **Hours at** 375 **F**

Inspection Level to applicable standard:

S-3 of MIL-STD.-105D: 4%

ASTM B602 Table II: 1.5%

Aircraft Braking System: 1%

ACC. X

Certified By:

James Beringer Jr.

Date: 3/1/2013

James Beringer Jr.
President

Plating Accepted

3-5-13

Tony Jones





Automatic Screw Machine Products Division
709 Second Avenue SE; PO Box 1608
Decatur, Alabama 35602
Telephone (256) 353-1931 Facsimile (256) 355-3612

Magnaflux Model: ARQ 544
S/N: 58144 (LU) & 58154 (UU)
Calibrated: 2/20/2013

14066

Magnetic Particle Test Report

Part Number: NAS509-3
Item Description: NUT
Specification: ASTM E-1444/E1444M-12
Technique Number: 22-A1T

Drawing Number: NAS509 REV. 7
Manufacturing Lot #: 14066
Acceptance Criteria: FF-N-836E

3 Phase Full Wave Rectified

Central Conductor - (Circular Field)

Coil - (Longitudinal Field)

Current Amps	Tap Switch Setting	Field Strength (gauss)	Rod Size
180	6	58.6	0.156
200	4	43.9	

Particle

Type or Color: 14A
Concentration: 0.15
Vehicle: Carrier II

Batch #: 10G078
Batch #: 11D005

Method

Continuous ☒ Residual ☐
Demagnetization Method: AC/SB-911

Residual Field After Demagnetization: ± 1%

Pre-Cleaning

Method	Solvent
<input type="checkbox"/> Ultrasonic	Acid
<input type="checkbox"/> Magnus Part Washer	Mineral Spirit
<input type="checkbox"/> By Hand	Kerosene
<input checked="" type="checkbox"/> Plated	n/a

Post-Cleaning

Method	Solvent
<input type="checkbox"/> Bowden Washer	Detergent
<input checked="" type="checkbox"/> By Hand	Kerosene

Sampling Plan Used: ASTM F-1470
Lot Quantity (pcs): 16,195
Quantity Accepted (pcs): 16,195
Quantity Removed (pcs): 0

Sampling Performed By: LMC
Sample Size (pcs): 15
Indications marked and parts routed to
Metallurgical examination (pcs): 0

Describe any discontinuities as to size, location and number:
N/A

Lisa Miller Cagle
Inspector

II
Level

03/05/13
Date



This test report can not be reproduced in any manner of form without consent of Automatic Screw Machine Products Co. and only related to the item(s) tested.

B/E Aerospace, Inc.

Page 1 of 1



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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
9	200	EA	MS21047-3		52788	PAOLO ASTORI	A3856		

A handwritten signature in black ink, appearing to read "Jason Lewis", written over a horizontal line.

Jason Lewis
Vice President of Quality

06/11/14

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**DOCUMENTO DI TRASPORTO (D.d.T.)****N° 7632****Data** 05/08/2013**Pag.** 1 / 3

9449

B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST..
MIAMI - FL
USA

Destinazione (Ship To):

370

B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST.

Cod. Cliente

33172 MIAMI - FL US

Pos.	Descrizione merce Part Number	Rif.Ordine (PO Number)	Data Ordine (PO Date)	Quantità (Quantity)	U.M.	N° Lotto (Batch #)	Peso (Weight)	TR	QCIR	FAI
1	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	4000	N	52792	-		X	
2	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
3	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
4	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
5	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
6	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
7	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
8	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
9	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
10	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
11	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
12	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	
13	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	-		X	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Aspetto esteriore merce	Comprende DdT n° /	Segue su DdT n° 7633
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**DOCUMENTO DI TRASPORTO (D.d.T.)**

N° 7632 **Data** 05/08/2013 **Pag.** 2 / 3

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9835 NW 14TH ST.

Cod. Cliente

33172 MIAMI - FL US

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14	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	872	N	52792	-		X	
15	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9128	N	52788	-		X	
16	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
17	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
18	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
19	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
20	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
21	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
22	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
23	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
24	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
25	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
26	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	6435	N	52788	-		X	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART.13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA,COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003, SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
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27	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
28	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
29	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
30	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
31	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
32	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
33	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	
34	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	-		X	

• SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30831/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART.13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA,COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003, SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 9, 28013 MAGGIATE SUPERIORE - GATTICO (NO)

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 7632****Date 05/08/2013****To:**

B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST.
MIAMI - FL
USA

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos	Part Number	Purchase Order	Order Date	Quantity	U.M.	Batch	Cure Date Expiry Date
1	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	4000	N	52792	
2	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
3	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
4	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
5	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
6	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
7	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
8	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
9	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
10	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
11	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
12	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
13	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	8000	N	52792	
14	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	872	N	52792	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3 APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014. - Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.

**PAOLO ASTORI SPA**

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Pos	Part Number	Purchase Order	Order Date	Quantity	U.M.	Batch	Cure Date Expiry Date
15	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9128	N	52788	
16	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
17	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
18	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
19	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
20	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
21	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
22	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
23	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
24	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
25	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
26	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	6435	N	52788	
27	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
28	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	

• SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/30631 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0, mark: collect; se sopra 150 lbs sped con fedex economy, account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014. - Agusta-Westland Q500 approval # A/0047

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MIAMI - FL
USA

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Country of origin is ITALY.

Pos	Part Number	Purchase Order	Order Date	Quantity	U.M.	Batch	Cure Date Expiry Date
29	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
30	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
31	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
32	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
33	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	
34	MS21047-3(Rev. REV3)	0KJF24	15/08/2012	9000	N	52788	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA Complies with DFARS 252.225-7014. - Agusta-Westland Q500 approval # A/0047

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QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabelli, 9 - MAGGIATE Sop. - 28013 GATTICO (NO) ITALY-TEL: 0322-838647 FAX: 0322-880158 www.paolozastor.com

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= AS/EN/ISO 9100 =

STATEMENT OF CONFORMITY

THIS IS TO CERTIFY THAT PARTS HAVE BEEN PRODUCED, CONTROLLED AND ACCEPTED ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION CALLED BY THE PURCHASE ORDER AND/OR THE APPLICABLE STANDARD DRAWING. MATERIAL, HEAT AND SURFACE TREATMENTS AND MANUFACTURING PROCESSES ARE THE SAME AS THOSE USED FOR THE QUALIFICATION APPROVAL. SAMPLES SUBJECT OF ALL TESTS WERE BEEN SELECTED AT RANDOM FROM THE PRODUCTION BATCH COVERED BY THIS DOCUMENT. COUNTRY OF ORIGIN ITALY. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF PAOLO ASTORI SPA.


Mattia Valleri
Signature
Quality Representative

CUSTOMER	see attached COC
P.O.	see attached COC
PART NO.	MS21047-3 per NASM21047 REV3 / NAS600X3 REV10
ASTORI CODE	10AD2SA302H21
DESCRIPTION	NUT SELF-LOCKING PLATE TWO LUG
PROCUREMENT SPEC.	NASM25077
BATCH NO.	52788
BATCH QUANTITY	225.000
QUANTITY DELIVERED	see attached COC

Description of component	Raw material specification	Raw material Batch no.	Heat N°	Heat treatment performed	Raw material in accordance with
NUT	SAE1042	-2763	8437	heating & tempering	ASTM A29
OTHER					
OTHER					
OTHER					

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller's manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, as seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.

Date: 29/07/13	Batch N° 52788	<u>MV</u>	page 1 of 5
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QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabelli, 9 - MAGGIATE Sop. - 28013 GATTICO (NO) ITALY-TEL: 0322-838647 FAX: 0322-880158 www.paolozastor.com

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SUMMARIZED TEST RESULTS

(All tolerances are expressed in metric and imperial units - test results are recorded as read on the MTE)

Characteristic	Inspection or test to be Performed	Applicable or not	Sample Inspected	Inspection Media	Test Result	Note
Examination of product:						
Design	Verify the design of the nut	A	ALL	VISUAL	OK	
Self-locking device (Major A)	Examination	A	80	VISUAL	OK	see table 1
Thread fit (Major B)	Go-no go gauge - test bolt application	A	32	BOLT GO-GAGE	OK	see table 2
Bearing surface conditions and squareness (Major B)	Check surface roughness and orthogonality error	A	32	OPTICAL COMPARATOR	OK	see table 3
Surface finish, plating or surface treatment (Major B)	Verify the compliance of the surface treatment and condition	A	32	VISUAL	OK	see table 4
Rivet hole location and alignment (Major B)	Measure the position and the distance	A	32	DIGITAL CALIPER	OK	see table 5
Height of nut (Major B)	Measure the dimension	A	32	DIGITAL CALIPER	OK	see table 6
Loose or hanging burrs (Minor)	Verify the presence of any kind of burrs	A	13	VISUAL	OK	see table 7
All other dimensional characteristics not covered above (Minor)	Measure all dimensions with reference on the applicable standard	A	13	DIGITAL CALIPER	OK	see table 8 see attachment
Axial Tensile strength (Table IX)	Verify if the nuts withstand the minimum axial strength	A	27	LOAD MACHINE	OK	see table 9
Locking torque	See below					
Max locking torque (Table IX)	Measure and record the torque value for 1st, 7th, 15th of each nut tested	A	27	LOAD MACHINE	OK	see table 10
Min breakaway torque (Table IX)	Measure and record the torque value for 1st, 7th, 15th of each nut tested	A	27	TORQUE METER	OK	see table 11
Torque out (Table IX)	Torque out value must be not less than the requested value (arbitrary)	N/A	-	TORQUE METER	OK	see table 12
Push out (Table IX)	Push out value must be not less than the requested value (arbitrary)	A	27	LOAD MACHINE	OK	see table 13
Discontinuities (Major B)	No cracks at all - Depth of discontinuities not more than values	A	32	VISUAL	OK	see table 14
23-hour stress embrittlement (10 pcs)	Evidence of complete absence of stress embrittlement (arbitrary)	A	10	VISUAL	OK	see table 15
Magnetic permeability (Table IX)	Cres nuts must have less a magnetic permeability less than 2.0 in air for a field strength of H=200	N/A	-	LOW MU INDICATOR	OK	see table 16
Inspection of packaging (All boxes)	Verify the correctness of packaging	A	ALL	VISUAL	OK	see table 17

Date: 29/07/13	Batch N° 52788	<u>MV</u>	page 2 of 5
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QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sop. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-480198 www.paccontrol.com

Table 1 - Self locking device - examination (control by attribute : ok/not ok)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 2 - Thread fit (control by attribute : go-no go gage ok/not ok - bolt application)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 3 - Bearing surface max. squareness deviation admitted $\frac{0.13 \text{ mm (0.0051 in)}}{3.2 (125 \text{ micro in})}$ max. measured $\frac{0.06 \text{ mm (0.0024 in)}}{1.6 (63 \text{ micro in})}$

0.06	0.06	0.05	0.05	0.03	0.05	0.03	0.04	0.04	0.03	0.04	0.06	0.06	0.05	0.05	0.05
0.06	0.06	0.05	0.05	0.06	0.04	0.06	0.05	0.06	0.04	0.04	0.03	0.06	0.05	0.05	0.05
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Table 4 - Surface finish, plating or surface treatment (control by attribute : ok/not ok)

Actual finishing CADMIUM PLATED IN ACC WITH AMS-QQ-P-416 TYPE II CLASS 2

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 5 - Rivet hole location and alignment

Dimension requested 17.48 $\pm 0.05 \text{ mm (0.688 } \pm 0.002 \text{ in)}$ max. range measured 17.47 mm (0.688 in)

17.45	17.45	17.45	17.46	17.45	17.46	17.45	17.45	17.46	17.45	17.45	17.46	17.45	17.45	17.45	17.45
17.46	17.46	17.45	17.47	17.45	17.46	17.45	17.47	17.45	17.45	17.45	17.46	17.45	17.45	17.45	17.46

Table 6 - Height of nut Dimension requested 6.35 mm max (0.250 in max) max. range measured 5.57 mm (0.219 in)

5.53	5.54	5.45	5.56	5.38	5.52	5.52	5.52	5.53	5.38	5.57	5.38	5.53	5.56	5.54	5.48
5.52	5.56	5.51	5.52	5.53	5.50	5.52	5.57	5.56	5.51	5.56	5.54	5.55	5.53	5.51	5.52

Date: 29/07/13

Batch N° 52788

page 3 of 5

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Table 7 - Loose or hanging parts (control by attribute by means visual examination ok/not ok)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table 8 - All other dimensional characteristics not covered above (reference on the tolerances of the applicable standard (w))

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table 9 - Axial Tensile strength - Minimum load requested 10946 N (2453 lb) max. measured 13250 N (2981 lb)

13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250
13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250

Table 10 - Max locking torque -

Max. installation torque admitted 2.03 Nm (17.97 in-lb) max. measured 1.68 Nm (14.87 in-lb)

1.55	1.59	1.64	1.49	1.62	1.68	1.57	1.43	1.51	1.47	1.59	1.52	1.49	1.56	1.58	1.53
1.26	1.30	1.25	1.23	1.20	1.26	1.25	1.22	1.29	1.30	1.25	1.20	1.25	1.28	1.21	1.20
1.02	1.06	1.03	1.05	1.09	1.06	1.01	0.98	1.03	1.02	1.05	1.06	1.05	1.06	1.00	1.10
1.60	1.58	1.52	1.49	1.50	1.56	1.52	1.58	1.48	1.58	1.52					
1.30	1.25	1.23	1.26	1.25	1.30	1.18	1.29	1.25	1.24	1.28					
1.11	1.02	1.06	1.01	1.05	1.09	1.01	0.99	1.02	1.15	1.02					

Table 11 - Min breakaway torque -

Min. breakaway torque requested 0.23 Nm (2.04 in-lb) min. measured 0.85 Nm (7.52 in-lb)

1.33	1.37	1.32	1.35	1.40	1.36	1.35	1.32	1.30	1.36	1.34	1.33	1.39	1.41	1.32	1.36
1.06	1.10	1.10	1.05	1.06	1.03	1.02	1.02	1.05	1.10	1.15	1.06	1.09	1.04	1.05	1.02
0.95	0.99	0.96	0.92	0.91	0.90	0.89	0.95	0.93	0.91	0.88	0.95	0.90	0.89	0.83	0.95
1.29	1.25	1.29	1.36	1.29	1.38	1.35	1.34	1.36	1.40	1.36					
1.03	1.05	1.02	1.12	1.15	1.09	1.05	1.06	1.05	1.06	1.08					
0.94	0.98	0.95	0.85	0.96	0.92	0.89	0.95	0.92	0.91	0.97					

Table 12 - Torque out - Minimum requested value

(control by attribute : ok/not ok) N/A

Table 13 - Push out - Minimum requested value 445 N (100 lb) (control by attribute : ok/not ok) 480 N (108 lb)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Date: 29/07/13

Batch N° 52788

page 4 of 5

PAOLO ASTORI SPA
-2763
RAW MATERIAL LOT

[illegible]



QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322- 838847 FAX: 0322-880198 www.paoloastori.com

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MATERIAL, HEAT AND SURFACE TREATMENTS AND MANUFACTURING PROCESSES ARE THE SAME AS
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SAMPLES SUBJECT OF ALL TESTS WERE BEEN SELECTED AT RANDOM FROM THE PRODUCTION BATCH
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PAOLO ASTORI SPA.

Mattia Vattori
Signature
Quality Representative

CUSTOMER	see attached COC
P.O.	see attached COC
PART NO.	MS21047-3 per NASM21047 REV3 / NAS680X3 REV10
ASTORI CODE	10AD25A302N21
DESCRIPTION	NUT SELF-LOCKING, PLATE TWO LUG
PROCUREMENT SPEC.	NASM25027
BATCH NO.	52788
BATCH QUANTITY	225.000
QUANTITY DELIVERED	see attached COC

Description of component	Raw material specification	Raw material Batch no.	Heat N°	Heath treatment performed	Raw material in accordance with
NUT	SAE1042	-2763	8437	hardening & tempering	ASTM A29
OTHER					
OTHER					
OTHER					

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Date: 29/07/13

Batch N° 52788

page 1 of 5



PAOLO ASTORI

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QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY - TEL: 0322-838847 FAX: 0322-880198 www.paoloastori.com

SUMMARIZED TEST RESULTS

(all tolerances are expressed in metric and imperial units - test results are recorded as read on the MTE)

Characteristic	Inspection or test to be Performed	Applicable or not	Sample Inspected	Inspection Media	Test Result	Note
Examination of product:						
Design	Verify the design of the nut	A	ALL	VISUAL	OK	
Self-locking device (Major A)	Examination	A	80	VISUAL	OK	see table 1
Thread fit (Major B)	Go-no go gauge - test bolt application	A	32	BOLT GO-GAGE	OK	see table 2
Bearing surface conditions and squareness (Major B)	Check surface roughness and orthogonality error	A	32	OPTICAL COMPARATOR	OK	see table 3
Surface finish, plating or surface treatment (Major B)	Verify the compliance of the surface treatment and condition	A	32	VISUAL	OK	see table 4
Rivet hole location and alignment (Major B)	Measure the position and the distance	A	32	DIGITAL CALIPER	OK	see table 5
Height of nut (Major B)	Measure the dimension	A	32	DIGITAL CALIPER	OK	see table 6
Loose or hanging burrs (Minor)	Verify the presence of any kind of burrs	A	13	VISUAL	OK	see table 7
All other dimensional characteristics not covered above (Minor)	Measure all dimensions with reference on the applicable standard	A	13	DIGITAL CALIPER	OK	see table 8 see attachment
Axial Tensile strength (Table IX)	Verify if the nuts withstand the minimum axial strength	A	27	LOAD MACHINE	OK	see table 9
Locking torque	See below					
Max locking torque (Table IX)	Measure and record the torque value for 1st, 7th, 15th of each nut tested	A	27	LOAD MACHINE	OK	see table 10
Min breakaway torque (Table IX)	Measure and record the torque value for 1st, 7th, 15th of each nut tested	A	27	TORQUE METER	OK	see table 11
Torque out (Table IX)	Torque out value must be not less than the requested value (attribute)	N/A	-	TORQUE METER	OK	see table 12
Push out (Table IX)	Push out value must be not less than the requested value (attribute)	A	27	LOAD MACHINE	OK	see table 13
Discontinuities (Major B)	No cracks at all - Depths of discontinuities not more than values	A	32	VISUAL	OK	see table 14
23-hour stress embrittlement (10 pcs)	Evidence of complete absence of stress embrittlement (attribute)	A	10	VISUAL	OK	see table 15
Magnetic permeability (Table IX)	Cres nuts must have less a magnetic permeability less than 2.0 in air for a field strength of H=200	N/A	-	LOW MU INDICATOR	OK	see table 16
Inspection of packaging (All boxes)	Verify the correctness of packaging	A	ALL	VISUAL	OK	see table 17

Date: 29/07/13

Batch N° 52788

page 2 of 5



QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY - TEL: 0322-838847 FAX: 0322-880198 www.paoloastori.com

Table 1 - Self locking device - examination (control by attribute : ok/not ok)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 2 - Thread fit (control by attribute : go-nogo gage ok/not ok - bolt application)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 3 - Bearing surface max. squareness deviation admitted
Surface roughness max. value admitted

$\frac{0.13 \text{ mm (0.0051 in)}}{3.2 (125 \text{ micro in})}$ max. measured $\frac{0.06 \text{ mm (0.0024 in)}}{1.6 (63 \text{ micro in})}$

0.06	0.06	0.05	0.05	0.03	0.05	0.03	0.04	0.04	0.04	0.03	0.04	0.06	0.06	0.06	0.05
0.06	0.06	0.06	0.05	0.06	0.04	0.06	0.05	0.06	0.04	0.04	0.03	0.06	0.05	0.05	0.05
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Table 4 - Surface finish, plating or surface treatment (control by attribute : ok/not ok)

Actual finishing CADMIUM PLATED IN ACC WITH AMS-QQ-P-416 TYPE II CLASS 2

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 5 - Rivet hole location and alignment.

Dimension requested $17.48 \pm 0.05 \text{ mm (0.688 } \pm 0.002 \text{ in)}$ max. range measured $17.47 \text{ mm (0.688 in)}$

17.45	17.45	17.45	17.46	17.45	17.46	17.45	17.45	17.46	17.45	17.45	17.46	17.45	17.45	17.45	17.45
17.46	17.46	17.45	17.47	17.45	17.45	17.46	17.45	17.47	17.45	17.45	17.45	17.46	17.45	17.45	17.46

Table 6 - Height of not

Dimension requested $6.35 \text{ mm max (0.250 in max)}$ max. range measured $5.57 \text{ mm (0.219 in)}$

5.53	5.54	5.45	5.56	5.38	5.52	5.52	5.52	5.53	5.38	5.57	5.38	5.53	5.56	5.54	5.48
5.52	5.56	5.51	5.52	5.53	5.50	5.52	5.57	5.56	5.51	5.56	5.54	5.55	5.53	5.51	5.52

Date: 29/07/13

Batch N° 52788

page 3 of 5



QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: Via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-880198 ww.paoloastori.com

Table 7 - Loose or hanging burrs (control by attribute by means visual examination ok/not ok)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
----	----	----	----	----	----	----	----	----	----	----	----	----	--	--	--

Table 8 - All other dimensional characteristics not covered above (reference on the tolerances of the applicable standard dwg)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
----	----	----	----	----	----	----	----	----	----	----	----	----	--	--	--

Table 9 - Axial Tensile strength - Minimum load requested 10946 N (2463 lb) max. measured 13250 N (2981 lb)

13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250
13250	13250	13250	13250	13250	13250	13250	13250	13250	13250	13250					

Table 10 - Max locking torque -

Max. installation torque admitted 2.03 Nm (17.97 in-lb) max. measured 1.68 Nm (14.87 in-lb)

1.55	1.59	1.64	1.49	1.62	1.68	1.57	1.43	1.51	1.47	1.59	1.52	1.49	1.56	1.58	1.53
1.26	1.30	1.25	1.23	1.20	1.26	1.25	1.22	1.29	1.30	1.25	1.20	1.25	1.28	1.21	1.20
1.02	1.06	1.03	1.05	1.09	1.06	1.01	0.58	1.03	1.02	1.05	1.06	1.05	1.08	1.00	1.10
1.60	1.58	1.52	1.49	1.50	1.56	1.52	1.58	1.48	1.58	1.52					
1.30	1.25	1.23	1.26	1.25	1.30	1.18	1.29	1.25	1.24	1.28					
1.11	1.02	1.06	1.01	1.05	1.09	1.01	0.99	1.02	1.15	1.02					

Table 11 - Min breakaway torque -

Min. breakaway torque requested 0.23 Nm (2.04 in-lb) min. measured 0.85 Nm (7.52 in-lb)

1.33	1.37	1.32	1.35	1.40	1.36	1.35	1.32	1.30	1.36	1.34	1.33	1.39	1.41	1.32	1.36
1.06	1.10	1.10	1.05	1.06	1.03	1.02	1.02	1.05	1.10	1.15	1.06	1.09	1.04	1.05	1.02
0.95	0.99	0.96	0.92	0.91	0.90	0.89	0.95	0.93	0.91	0.88	0.95	0.90	0.89	0.93	0.95
1.29	1.25	1.29	1.36	1.29	1.38	1.35	1.34	1.36	1.40	1.36					
1.03	1.05	1.02	1.12	1.15	0.19	1.05	1.06	1.05	1.06	1.08					
0.94	0.99	0.95	0.85	0.96	0.92	0.89	0.95	0.92	0.91	0.97					

Table 12 - Torque out - Minimum requested value (control by attribute :ok/not ok) N/A

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 13 - Push out - Minimum requested value 445 N (100 lb) (control by attribute :ok/not ok) 480 N (108 lb)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK					

Date: 29/07/13

Batch N° 52788

page 4 of 5



QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-880198 www.paolostori.com

Table 14- Discontinuities-No cracks at all-no discontinuities with depth more than 0.13 mm (control by attribute : ok/not ok)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Table 15 - 23-hour stress embrittlement (control by attribute : ok/not ok)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
----	----	----	----	----	----	----	----	----	----

Table 16- Magnetic permeability - (control by attribute : ok/not ok/N/A)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 17- Inspection of packaging - (control of each package unit of the shipment : ok/not ok with respect to the order requirements)

OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

SAMPLING TABLES

TABLE FOR MAJOR A CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	50	0	1
35,000<Q<150,000	80	0	1
150,000<Q<500,000	80	0	1

TABLE FOR MAJOR B CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	20	0	1
35,000<Q<150,000	32	0	1
150,000<Q<500,000	32	0	1

TABLE FOR MINOR CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	8	0	1
35,000<Q<150,000	13	0	1
150,000<Q<500,000	13	0	1

TABLE IX

BATCH SIZE	SAMPLE SIZE	AN	RN
<50,000	10	0	1
50,000<Q<100,000	15	0	1
Q>100,000	27	0	1

Date: 29/07/13

Batch N° 52788

page 5 of 5

PAOLO ASTORI SPA
-2763
RAW MATERIAL LOT

THEIS

[illegible]

7125 AAA ADI



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
10	20	EA	MS21047L06		XP051	ALCOA FASTENING/REPU	52828		

Jason Lewis
Vice President of Quality

06/11/14



REPUBLIC FASTENER MANUFACTURING CORPORATION
1300 RANCHO CONEJO BOULEVARD, NEWBURY PARK, CA 91320 (805) 498-6621

CERTIFICATE OF TEST

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THE REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS ARE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS CURRENT ON THE DATE OF MANUFACTURE. TEST REPORTS COVERING MATERIALS IN THESE PARTS AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS ARE ON FILE AND SUBJECT TO EXAMINATION. PARTS AS SHIPPED HAVE NEVER BEEN IN CONTACT WITH MERCURY. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THE LABORATORY.

PARTS MANUFACTURED IN: ☒ U.S.A ☐ MEXICO

☐ IN ACCORDANCE WITH: DFAR 252.225.7014 ALT. I

Deeana Martinez
Signature of Quality Assurance Representative

8-24-10
Date

P.O.: 0EP509
Quantity Ordered: 16,780
Customer: B/E AEROSPACE CONSUMABLES
Description: PLATE NUT
Also Certified To: NAS680A06 REV.13

Part No. MS21047L06 REV.2
Date Cert Ordered: 8-24-10
Lot No.: XF051
Procurement Spec: NASM25027
Additional Info: R200A06

IF APPLICABLE, CHECK ONE BELOW:

- ☐ **FAA CERTIFICATION (PMA):** IT IS HEREBY CERTIFIED THAT (A) THE PARTS AND/OR MATERIALS REFLECTED HERE-IN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN FEDERAL AVIATION REGULATION, PART 21, SUB-PART K, PARAGRAPH 21.303 AND (B) ALL PARTS AND/OR MATERIALS ARE CERTIFIED NEW, CONFORMS TO THE DESIGN DATA AND ARE IN AIR WORTHY CONDITION.

Signature of Quality Assurance Representative

Date

- ☐ **TSO-C148 STATEMENT:** THE PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH TSO-C148. THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. AIRCRAFT FASTENERS APPROVED UNDER THIS TSO ARE NOT NECESSARILY INTERCHANGEABLE WITH OTHER AIRCRAFT FASTENERS APPROVED UNDER THIS TSO. FASTENERS OF SIMILAR DIMENSIONAL PROPERTIES MAY HAVE WIDELY VARYING PERFORMANCE AND METALLURGICAL PROPERTIES. SUBSTITUTION OF PARTS MAY ONLY BE DONE IF ACCEPTABLE TO OR APPROVED BY THE ADMINISTRATOR.

Signature of Quality Assurance Representative

Date



Alcoa Fastening Systems
Republic Operations

QUALITY OPERATING PROCEDURE

Document: F-10.700.4
DCN: 1260
Revision: 2
Effective Date: May 18, 2010

Final Inspection Report

LOT NUMBER		PART NUMBER		DATE		
XF051		MS21047LOG		6-11-10		
SAMPLE SIZE	CHARACTERISTIC DESCRIPTION	INSPECTION MEDIA	1 ST ARTICLE	DEFECT	ACCEPT/ REJECT	PRODUCTION RELEASE DATE
NUT WE041	MATERIAL: CALSTRIP HEAT: 0474-001-006 SIZE: 025 X 1.250	VENDOR CERTIFICATION ALLOY VERIFICATION	11/1	0	ACC	5/12/09
CAP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATION ALLOY VERIFICATION		N/A		
BASKET	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATION ALLOY VERIFICATION		N/A		
CLIP	MATERIAL: HEAT: SIZE:	VENDOR CERTIFICATION ALLOY VERIFICATION		N/A		
15 PCS	AMS5732, AMS5525 STAINLESS ONLY! AGED LOAD:	TENSILE HRC HARDNESS TESTER		N/A		
15 PCS	AMS-H-6875 STEEL ONLY! AUSTEMPERING LOAD: 29437	TENSILE HRC HARDNESS TESTER		0	RFM 107	10/1/09
SEE LOG	AMS2410 [] AMS2411 [] SILVER PLATING LOAD:	VISUAL ADHESION AND THICKNESS ASTM B568		N/A		
SEE LOG	AMS-QQ-P-416 CLASS 1 [] 2 [] 3 [] CAD PLATING LOAD: 0562	VISUAL ADHESION AND THICKNESS ASTM B568		0	RFM 107	10/5/09
10 PCS	EMBRITTLMENT RELIEF BAKE 375 °F ±25 °F FOR 23 HOURS MIN. CAD PLATING LOAD: 0562	23 [] 48-50 [] CLIP HOURS STRESS AT ROOM TEMP PER NASM1312, TEST 14		0	RFM 107	10/5/09
5 PCS	EMBRITTLMENT RELIEF BAKE 375 °F ±25 °F FOR 23 HOURS MIN. CAD PLATING LOAD:	96 [] HOURS STRESS AT SERVICE TEMP PER NASM1312, TEST 14 [] BPS-N-70 []		N/A		
ASQC Z1.4	GOLD CHROMATE TREATMENT TYPE II	VISUAL - WORKMANSHIP SALT SPRAY TEST OF AMS-QQ- P-416		0	RFM 107	10/5/09
SEE LOG	PASSIVATED PER AMS-QQ-P-35, AMS2700 STAINLESS STEEL ONLY!	VISUAL SALT SPRAY TEST PER ASTM B117		N/A		
ASQC Z1.4	MAGNETIC PERMEABILITY 2.0 (AIR 1.0) FOR A FIELD STRENGTH = 200 OERSTEDS	INDICATOR PER ASTM A342 METHOD 3, CORROSION RESISTANT STEEL ONLY		N/A		
SEE LOG	NON-DESTRUCTIVE TESTING DISCONTINUITIES SAMPLE [] 100% []	MAGNETIC PARTICLE PER ASTM E1444 OR FLUORESCENT PENETRANT PER ASTM E1417		N/A		
32 PCS	CARBOWAX PER C-1315 DRAWING BATCH NO:	VISUAL, WORKMANSHIP		N/A		
15 PCS	DRY FILM LUBRICANT PER AS5272 TYPE 1 BATCH NO: PC10788	VISUAL, WORKMANSHIP, ADHESION PER AS5272		0	RFM 107	6/22/10
8PCS 15PCS	MICROSTRUCTURE	BPS-N-70 NAS3350 []		0	RFM 107	10/2/09
ASQC Z1.4	THREADS PER MIL-S-8879, AS8879	METHOD B, SYSTEM 22		0	RFM 107	5/28/09

NOTE: ALL SPECIFICATIONS REFERENCED REFER TO THE MOST CURRENT REVISION UNLESS OTHERWISE STATED.



Alcoa Fastening Systems
Aerospace Products - Republic Operations

Quality Operating Procedure

Document: F-10.706.1
Revision: 1
Effective Date: December 15, 2009
DCN: 854

Push-Out, Torque-Out, Wrenching Torque, Tensile Test Results

LOT NUMBER	BPS-N-70 ATTRIBUTE PLAN	NOTE	25027 ATTRIBUTE PLAN
XF051	LOT SIZE SS	ALL SAMPLES TESTED MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS	LOT SIZE SS
	UNDER 9..... 2		UNDER 10M..... 5
	9 THRU 15..... 3		10M THRU 50M..... 10✓
	16 THRU 25..... 4		50M THRU 100M..... 15
	26 THRU 90..... 5		OVER 100M..... 27
	91 THRU 280..... 7		
	281 THRU 3200..... 13		
	OVER 3200..... 15		

PUSH-OUT TEST					DATE: 6-22-10	MIN. 60 POUNDS	PUSH-OUT REQUIREMENTS
70	70	70	70	70			PASS / FAIL
70	70	70	70	70			STAMP

TORQUE-OUT TEST					DATE: _____	WRENCH SN: _____	TORQUE-OUT REQUIREMENTS
							MIN. _____ INCH POUNDS
							PASS / FAIL
							STAMP

WRENCHING TORQUE TEST					DATE: _____	WRENCH SN: _____	WRENCHING TORQUE REQUIREMENTS
							MIN. _____ INCH POUNDS
							PASS / FAIL
							STAMP

TENSILE TEST					DATE: 6-22-10	MACHINE SN: 223757	STAMP
TEST BOLT: MS16997-06					25027 REQ. 130	LBS.	BPS-N-70 REQ. _____ LBS.
1201	1201	1202	1201	1201	HIGH = 1202	[-] PROOF LOAD TEST	
1201	1201	1201	1201	1201	LOW = 1201	[] TESTED TO FAILURE	
					R = 1	(RANGE = HIGH MINUS LOW)	
					X = 1201.1	(AVERAGE TENSILE STRENGTH)	
					R x .4 = .4		
					X-.4R = 1200.7		

Torque and Hardness Test Results

LOT NUMBER	BPS-N-70 ATTRIBUTE			NOTE	25027 ATTRIBUTE PLAN		
XF051	LOT SIZE	SS	AC		LOT SIZE	SS	AC
	UNDER 9.....	2...	0		UNDER 10M.....	5...	0
	9 THRU 15.....	3...	0		10M THRU 50M.....	10	0
	16 THRU 25.....	4...	0		50M THRU 100M.....	15.	0
	26 THRU 90.....	5...	0		OVER 100M.....	27	0
	91 THRU 280....	7...	0				
	281 THRU 3200..	13	0				
	OVER 3200.....	15..	0				

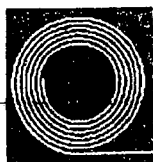
[illegible]

NOTE: Record all cycles exhibiting values exceeding or not meeting maximum or minimum requirements as described in QOP 10.703, paragraph 8.7 and 9.11.

[illegible]

* CLIPS AND NUTS ONLY

CERTIFIED TEST REPORT



Calstrip Steel Corporation

REGISTERED ISO 9001:2000

7140 Bandini Blvd. * Los Angeles, CA 90040-3388

(323)726-1345 * Fax (323)722-8269

Customer: REPUBLIC FASTENER CO. Address: 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CA 91320	Order Number: S50082 / W61674 Customer PO: 14250 Shipped Date: 04/07/2009 Packlist ID: 83281
Part ID: R620.025-CS Description: HC.CR.1050.025X1.250XCOIL Drawing #: R620.025 Rev #:	Material Spec: AMS-5085G, AMS QQS-700B, QQS-635, ASTM A682-05, ASTM A684-05

HeatID: 0474-001-006

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.4919	0.7080	0.0191	0.0041	0.2100	0.0200	0.0600			
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test
			HRB 83	OK

Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Skid Numbers	# of Coils	Weight
W61674-1	10	2,410
W61674-2	10	2,395
	20	4,805

Comment: SOURCE- HANKUM (KOREA)
CUSTOMER APPROVED HARDNESS ON 3/6/09.



09-613

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

MARIO VARGAS

Technical Services

Form #:

Print Date: 4/7/2009

Page: 2



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

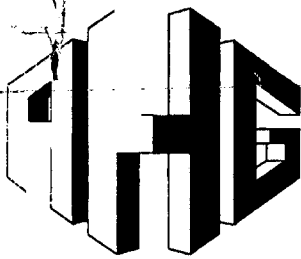
PURCHASE ORDER#: PO24532

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
4	125	EA	MS20615-4M18		208112 P001 P001	AHG ATELIERS HAUTE-G	P0095		


Jason Lewis
Vice President of Quality

06/11/14

Inv # 06/11/14



ATELIERS DE LA HAUTE-GARONNE

Ets AURIOL & Cie S.A. au capital de 146300 EUR - Z.I. de FLOURENS - 31130 FLOURENS - FRANCE

Tél. (33) 5 61 83 60 35 - Fax (33) 5 61 83 95 05 - RCS TOULOUSE B 550 800 528 - SIRET 550 800 528 00014 - APE 287 G

CERTIFICATE of CONFORMITY and TEST REPORT N° A344327

of 21 NOV 2007

Page 1

IM5

Your P.O. nb. : 855842	of : 24 OCT 2007	Supplier number : 1693
N° ack. : 208112	of : 25 OCT 2007	

Shipment to (or notify party)

HONEYWELL AEROSPACE
CONSUMABLES SOLUTIONS 710 HENRIETTA CREEK
ALLIANCE GATEWAY 54
76262 ROANOKE ETATS UNIS

INSPECTION SIZE : 13 for VISUAL / DIMENSIONAL For other test see below column: Test#

ITEM	ORDERED	PART NUMBER	SHIPPED
1	25.000 Lb.	MS20615-4M18 (3) Monel 400 WL 2.4360 univ.head marked chamfer roll sorting No coating NASM20615 ed.3 July 03	25.000 Lb. 5020 Pcs **

Lot nb **208112 P001 F001**
NATO Cod : F0095

Qty.: 25.000 Lb.

AHG Wire lot nb.: **172891**

Manufacture heading date: 14 NOV 2007

Material heat nb.: 69201

Material Producer : DN

	Mini	Maxi	Value	Unit	Test#
Cis./Shear strength 08-058MO double(D)/simple(S): D Rc/shear strength	49.00	59.00	55.67	KSI	5
D Rc/shear strength	49.00	59.00	56.02	KSI	
D Rc/shear strength	49.00	59.00	55.52	KSI	
D Rc/shear strength	49.00	59.00	55.82	KSI	
D Rc/shear strength	49.00	59.00	54.50	KSI	
Ecrasement/Driveability conforme: 0/N 0 defaults/defects		0.00	0.00		3

AL 0,00520	C 0,05500	CO 0,00000	CU 33,41000	FE 1,55000	MN 0,93000	NI + CO 63,88000	P 0,00000	PB 0,00000	S 0,00100	SI 0,11000
SN 0,00000	ZN 0,00000	ZN + SN + PB 0,00000								NI BALANCE

We hereby declare, subject to exceptions, reservations, or concessions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completion of testing and verification, they satisfy in every respect all specified requirements, and applicable standards and regulations.

SUPPLIER'S INSPECTION 21 NOV 2007

NAME AND FUNCTION

Vincent FABRE Controleur

Computer controlled signature



Honeywell Source Accepted

Stamp Impression : AHG /Ff

Date : 21 NOV 2007

RMRA #

** Estimated quantity



MTR



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
3	100	EA	MS20601AD4W2		87608919	CHERRY AEROSPACE SAN	11815		


Jason Lewis
Vice President of Quality

06/11/14



CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: S0363570
Order Date: 10/27/11
Print Date: 03/09/12

Page: 1



Sold-To: 10015341

Ship-To: 10043053

S O L D T O	B/E AEROSPACE PO BOX 025263 MIAMI, FL 33102-5263 USA
----------------------------	---

S H I P T O	B/E AEROSPACE 9835 NW 14TH STREET MIAMI, FL 33172 USA
----------------------------	--

Salesperson (s):110

Purchase Order: 0BZA19

Credit Terms: NET 30
Net 30

Ship Via: YRC

FOB: Origin - Collect

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE
DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3
AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010
TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

*IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7009 ALT I
*PREFERENCE FOR DOMESTIC SPECIALTY METALS

CHERRY DOES NOT ACCEPT QAP33 A.3 ITEM 3

CHERRY DOES NOT ACCEPT QAP33 A.3 ITEM 3						
Ln	Item Number	Site T Location	Lot/Serial	Qty Open Qty to Ship	UM	Promised Shipped
1	CR9162-4-02	1600			EA	02/03/12
	Customer Item: MS20601AD4W2					
		J0904	87608919			
				17700.0		()

TEST REPORTS ENCLOSED
DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

Packing List



CHERRY®
AEROSPACE
 SPS Fastener Division, a PCC Company

Cherry Aerospace
 1224 East Warner Avenue
 Post Office Box 2157
 Santa Ana, CA 92707-0157
 USA



PACKING LIST

Order No: SO363570
 Order Date: 10/27/11
 Print Date: 03/09/12

Page: 1



Sold-To: 10015341

Ship-To: 10043053

S O L D T O	B/E AEROSPACE
	PO BOX 025263
	MIAMI, FL 33102-5263
	USA

S H I P T O	B/E AEROSPACE
	9835 NW 14TH STREET
	MIAMI, FL 33172
	USA

Salesperson (s):110

Purchase Order: 0BZA19

Credit Terms: NET 30
 Net 30

Ship Via: YRC

FOB: Origin - Collect

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
 IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE
 DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
 DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

 BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3
 AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010
 TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

*IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7009 ALT I
 *PREFERENCE FOR DOMESTIC SPECIALTY METALS

CHERRY DOES NOT ACCEPT QAP33 A.3 ITEM 3

Ln	Item Number	Site	Qty Open	Promised	
		T Location/Lot/Serial			
1	CR9162-4-02	1600		EA	02/03/12
	Customer Item: MS20601AD4W2				
	J0904 87608919		17700.0	()	

TEST REPORTS ENCLOSED
DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

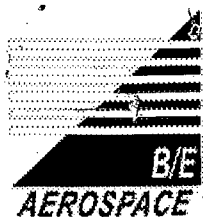
ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Assurance Representative

Signed

SIM NGUYEN



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
8	500	EA	MS21043-3		5404670-000	ALCOA KAYNAR FULLERT	15653		


Jason Lewis
Vice President of Quality

06/11/14

Inv # 06/11/14

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948080768

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date Order # Cust PO Ship Via Weight Pkgs #

01/14/14 F433565 OFRW45

Line/Rel It **CERTIFICATION** Qty Ordered Qty To Pack
9-1 AAT840 625 73 58
H413

C/I: MS21043-3

PO Item #: 4

Cust Date: 01/10/14

Kay Date: 01/02/14

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: 5404670-000

COO:MEXICO

Waybill:

ECCN:9A991 Schedule-B Number:7318.16.0000

HTS-Code:7318.16.0060

The export classification appears above. You are responsible for all related export license requirements.

MFG C OF C CHEM & PHYS TEST REPORT REQ

** DUAL CERT TO NAS1291C3 AND LS8859-3

**

SHIP VIA : FED EX AIR

BUYER: CRISTINA SANCHEZ

PHONE:

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

K452

MICHELE M. VARELA
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653

Eagle Products: Cage Code 66776

Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948080768

Page: 2

Bill To: 5574
B/E AEROSPACE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
01/14/14	F433565	OFRW45			

Line/Rel Item Description Qty Ordered To Pack

MATERIAL COMPLIES WITH DARS 52-225-700
9 PREFERENCE FOR DOMESTIC SPECIALTY
METALS" WITH ITS ALTERNATE 1.

***SHIP VIA FEDX AIR COLLECT ACCT# 0331-
0149-0 IF 150 LBS OR MORE:SHIP FED
EX FREIGHT ECONOMY COLLECT ACCT# 018757.

DO NOT SHIP BY ANY OTHER WITHOUT PROPER
WRITTEN AUTHORIZATION.

ALLOWABLE SHIPPING TOLERANCE = +0%-0 %.
** BAR CODE PER QAP 33 CLAUSE P REQUIRED

** QAP 33.0 REV F CLAUSES: A,A.1,B,C,E,H
,P,U,V. CLAUSE A.3 GENERAL TERMS
APPLIES.

*** PER JESSICA 8/24 PULL IN MARCH & JUN
E SCH FROM 2013 TO ASAP VB 8/24
chem & phys certs

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

MICHELE M. VARELA
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 68776 • Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

NO.

Page 1 of 3

**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**

8195108

Lot No.

5404670-000

Supplier Item No.

AAT840

Supplier Part No.

H41-3

Interchange Part No.

525-595-9005 Rev. N

Interchange Part No.

GTS297-4 Rev. 3

Interchange Part No.

H41-3

Interchange Part No.

LS8859-3 Rev. A

Interchange Part No.

MS21043-3 Rev. 3

Interchange Part No.

N8862175/E Rev. 5a

Interchange Part No.

NAS1291A3 Rev. 13

Interchange Part No.

NAS1291C3 Rev. 13

Interchange Part No.

Manufactured Quantity

82400

Mfg. Date

Generic Description

NUT 6 POINT

Thread Size

.1900-32

PLATE/COAT

AMS 2410 REV. K

HEAT TREAT

AMS-H-6875 REV. B

Non-Destruct

ASTM E1417 REV. 11 E1 SAMPLE

PERFORMANCE

NASM25027 REV. 1

Material Spec. # 1

AMS 5731-L

Mill Heat No.

970239

Control Heat No.

AA18989

Material Supplier

CARPENTER TECHNOLOGY CORP

Special Process Requirements:

THREADS AND GAUGING PER AS8879 Rev.DR12
and ASME B1.3M SYS. 22

MIN EQUALS BKWY MAX EQUALS INST.

* CONFORMS TO AMS5732J AFTER HT TREAT

MAGNETIC PERMEABILITY LESS THAN 2.0

TEST RESULTS

TEST No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 010 TORQUE TEST	IN#	1	1	12.00	14.40		2.00	18.00
18 lbs max install./2.0 lbs min bkwy.			7	11.90	13.25			
			15	11.30	13.05			
		2	1	8.30	8.75			
			7	7.80	7.85			
			15	8.35	9.40			
		3	1	10.10	11.90			
			7	12.35	13.95			
			15	11.15	12.85			
		4	1	16.20	15.90			
			7	15.00	15.85			
			15	14.45	14.65			
		5	1	15.85	15.65			
			7	12.30	13.20			
			15	10.60	12.45			
		6	1	13.05	14.50			
			7	12.80	13.70			
			15	12.25	13.05			

TEST RESULTS - Continued on next page.**THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED**

The product identified on this Certificate has been manufactured, tested and unless otherwise noted, conforms in all respects to the applicable drawings, specifications and standards. Complete reports of physical and chemical tests are on file for examination. If no specified customer quality level is required, goods conform to sellers quality level. All Damages Exceeding Price are Excluded. For items certified to BPS-N-70 alloy verification has been performed on parts with a date of manufacturing on or after January 1, 2001. Quality system sampling plan conforms to the requirement of QAP EQ001, QAP EQ002, QAP EQ003. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

MICHELE M. VARELA, QA MGR.

ALCOA GLOBAL FASTENERS, INC.

Rev. 12/02 Form 11109

SHIPPER#: 9948080768

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NO.

Page 2 of 3

8195108

Lot No.

5404670-000

**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**Supplier Item No.
AAT840Supplier Part No.
H41-3**TEST RESULTS - Continued from previous page.**

----- TEST ----- No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
2 - 020 TENSILE TEST BOLT & NUT THD STRIPPED	LBS	7	1	10.70	10.35		2460.00	
			7	11.60	11.20			
			15	10.75	10.65			
		8	1	8.40	9.20			
			7	16.85	16.70			
			15	15.45	16.15			
		9	1	8.75	10.50			
			7	9.25	9.60			
			15	9.80	10.15			
		10	1	11.70	13.00			
			7	9.85	10.80			
			15	9.20	10.70			
		11	1	13.55	14.50			
			7	11.75	12.65			
			15	11.25	12.30			
		12	1	13.60	13.80			
			7	12.15	11.60			
			15	9.80	10.20			
		13	1	12.55	12.75			
			7	12.70	13.60			
			15	13.15	14.05			
		14	1	11.40	11.60			
			7	9.50	9.70			
			15	9.15	9.25			
		15	1	14.25	14.25			
			7	10.20	11.30			
			15	9.15	10.15			
		1	1	4330.00				
		2	1	2600.00				
		3	1	2600.00				
		4	1	2600.00				
		5	1	2600.00				
		6	1	2600.00				
		7	1	2600.00				
		8	1	2600.00				
		9	1	2600.00				
		10	1	2600.00				
		11	1	2600.00				
		12	1	2600.00				
		13	1	2600.00				

TEST RESULTS - Continued on next page.**THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED**

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MICHELE M. VARELA, QA MGR.

ALCOA GLOBAL FASTENERS, INC.

Rev. 12/02 Form 11199

SHIPPER#: 9948080768

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**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S. STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**Lot No.
5404670-000Supplier Item No.
AAT840Supplier Part No.
H41-3**TEST RESULTS - Continued from previous page.**

----- TEST ----- No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
3 - 110 HARDNESS HRC 38/44 7 - 113 Hardness (HR15N)	RC	14	1	2600.00	38.00			
		15	1	2600.00				
		1	1	38.00				
	-	1	1	(79.40)	(79.70)			

Component # 1	Lot Number M022241-000	Supplier Part No. H52732-3DL	Supplier Item No. CWP917
-------------------------	----------------------------------	--	------------------------------------

Manufactured Quantity	Mfg. Date 05/22/13	Generic Description 6 POINT NUT	Thread Size .1900-32
-----------------------	------------------------------	---	--------------------------------

Material Spec. # AMS 5731-L	Mill Heat No. 970239	Control Heat No. AA18989	Material Supplier CARPENTER TECHNOLOGY CORP
---------------------------------------	--------------------------------	------------------------------------	---

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MICHELE M. VARELA, QA MGR.

ALCOA GLOBAL FASTENERS, INC.

Rev. 12/02 Form 11100

SHIPPER#: 9948080768

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 000872210

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

04/22/13

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 3

ALCOA FASTENING SYSTEMS
FULLERTON OPERATION
P O BOX 3001
FULLERTON, CA 92631

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

CUSTOMER ORDER NO. / BESTELL.-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS.-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
220653296	LOS186801 L39697	04/22/13	4537.000

HEAT NUMBER / SCHMELZE.-NR. / N° DE COULEE: 970239

PRODUCT DESCRIPTION: A286 SOLUTION ANNEALED COLD FINISH SEAM FREE C HDG CL H2
----- STD CU/LM SOAP
PART NUMBER: 732084

SPECIFICATION: FAIRCHILD MS 309 CLASS A REV 16 (09/15/10)
----- AMS 5732 REAFFIRMED REV J (07/ /12) (CAPABLE OF)
FAIRCHILD MS 550 REV 2 (12/10/02)
AMS 5731 REAFFIRMED HEADING STOCK REV L (07/ /12)

SIZE 0.279000 IN. (7.09 MM) RD WIRE

PRIMARY HEAT CHEMISTRY (WT%) :

C ✓	MN ✓	SI ✓	P ✓	S ✓	CR ✓
0.03	0.23	0.06	0.017	LT .001	13.98
NI ✓	MO ✓	CU ✓	CO ✓	AL ✓	TI ✓
24.80	1.24	0.13	0.07	0.18	2.15
V ✓	B ✓				
0.25	0.0060				

THE CHEMICAL ANALYSIS OF THIS HEAT HAS BEEN PERFORMED BY THE CARPENTER SPECIALTY ALLOYS CHEMICAL LABORATORY, (CODE NUMBER PRI 100004), WHICH WAS ACCREDITED TO THE ISO/IEC 17025.

COUNTRY OF ORIGIN: U.S.A.

THIS MATERIAL HAS BEEN SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND MEETS ALL SPECIFICATION REQUIREMENTS.

THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL REVISION 30, DATED 09/28/11.

THIS MATERIAL WAS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMINATION.

MILL HEAT TREATMENT:

TYPE	SOLUTION ANNEAL
TEMP	1800F (982C)
TIME AT TEMP	CONTINUOUS FURNACE
QUENCH	WATER

4/27/13 K424

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keine Haftung für die ausgetragenen Daten oder Zertifizierungen.
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SHIPPER#: 9948080768

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CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 000872210

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

04/22/13

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 3

ALCOA FASTENING SYSTEMS
FULLERTON OPERATION
P O BOX 3001
FULLERTON, CA 92631

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE

CARPENTER NO. / WERKS-NR. / N° DE REFERENCE INTERNE

DATE / DATUM / DATE

WEIGHT / GEWICHT / POIDS

220653296

LOS186801 L39697

04/22/13

4537.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

970239

HARDNESS AS SHIPPED, HRBW -

87

(MIDRADIUS)

TENSILE AS SHIPPED, -----

KSI (MPA)

92.5 (638)

GRAIN SIZE PER ASTM E112: 7

(KALLINGS)

CAPABILITY

1800 F (982 C), 01 HR
1325 F (718 C), 16 HR

OIL TREAT
AIR COOL

COMBINATION STRESS RUPTURE

TEST TEMP 1200 F (649 C)
STRESS, KSI (MPA) 70.0 (483)
ELONGATION % 31.9
HOURS 72.8

AFTER MINIMUM TIME UNDER SPECIFIED STRESS, THE STRESS RUPTURE TEST
WAS OVERLOADED IN INCREMENTS AS FOLLOWS:

TOTAL HOURS	STRESS KSI (MPA)
55	75.0 (517)
63	80.0 (552)
71	85.0 (586)

(T) RANSVERSE	(L) ONGITUDINAL	L
YIELD STRENGTH, (0.20 %) KSI (MPA)	107.0 (738)	
TENSILE STRENGTH, KSI (MPA)	160.0 (1103)	
ELONGATION IN 2.00", %	23.0	
REDUCTION OF AREA, %	47.0	
HARDNESS, HBW	316.0	

CONTINUED ON NEXT PAGE

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SHIPPER#: 9948080768

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CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 000872210

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

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- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

04/22/13

CUSTOMER/BESTELLER/CLIENT

SELLER/VERKÄUFER/VENDEURPAGE 3 OF 3

ALCOA FASTENING SYSTEMS
FULLERTON OPERATION
P O BOX 3001
FULLERTON , CA 92631

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING , PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE

CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE

DATE/DATUM/DATE

WEIGHT/GEWICHT/POIDS

220653296

LOS186801 L39697

04/22/13

4537.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

970239

CAPABILITY

1650 F(899 C), 02 HR
1325 F(718 C), 16 HR

OIL TREAT
AIR COOL

***TESTED AT WESTMORELAND MECHANICAL TESTING & RESEARCH, INC.

COMBINATION STRESS RUPTURE
TEST TEMP 1200 F(649 C)
STRESS, KSI(MPA) 65.0(448)
ELONGATION % 32.9
HOURS 72.2

AFTER MINIMUM TIME UNDER SPECIFIED STRESS, THE STRESS RUPTURE TEST
WAS OVERLOADED IN INCREMENTS AS FOLLOWS:

TOTAL HOURS STRESS KSI(MPA)
49 70.0(483)
58 75.0(517)
66 80.0(552)

(T)RANSVERSE (L)ONGITUDINAL L
YIELD STRENGTH, (0.20 %) KSI(MPA) 108.0(745)
TENSILE STRENGTH, KSI(MPA) 162.0(1117)
ELONGATION IN 2.00", % 24.0
REDUCTION OF AREA, % 48.0
HARDNESS , HBW 325.0

MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,
SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS
OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO
THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE
REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH
3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE
IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS,
AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER
ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

DATE REVISED: 04/16/13

SHERRY L KREIDER
ADMINISTRATOR - QUALITY
CARPENTER TECHNOLOGY CORPORATION

GPV*732084

Sherry Kreider

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Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

SHIPPER#: 9948080768

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PAOLO ASTORI SPA
Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com



CERTIFICATE OF CONFORMANCE

N° 6797

Date 08/07/2013

To:

B/E AEROSPACE INC. CONSUMABLES MANAG
9835 NW 14TH ST.
MIAMI - FL
USA

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos	Part Number	Purchase Order	Order Date	Quantity	U.M.	Batch	Cure Date Expiry Date
1	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	11930	N	52472	
2	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
3	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
4	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
5	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
6	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
7	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
8	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
9	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
10	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
11	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
12	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
13	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	
14	MS21089L3 RELEASE W0170KJE83 (Rev. REV1)	OKJE83	17/08/2012	10000	N	52472	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREMENT OF BAE/AG/30631/MAA APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 - Se sotto 150 lbs aped con index ground, account #0331-0149-0, mark collect; se sopra 150 lbs, con index economy account #010757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014 - Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.



PAOLO ASTORI SPA
Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel: (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com



CERTIFICATE OF CONFORMANCE

N° 6797

Date 08/07/2013

To:

B/E AEROSPACE INC. CONSUMABLES MANAG
9835 NW 14TH ST.
MIAMI - FL
USA

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos	Part Number	Purchase Order	Order Date	Quantity	U.M.	Batch	Cure Date Expiry Date
15	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
16	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
17	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
18	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
19	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
20	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
21	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
22	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
23	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	4070	N	52472	
24	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
25	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
26	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
27	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
28	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREMENT OF BAE/AG/BC1 PART 5 - APPROVAL # BAE/AG/30631/AAA AND WITH AIRBUS BA'S APPROVAL # 204788 - 2e sotto 150 lbs speed on index ground, account #0331-0149-0/mark collect; as sopra 150 lbs speed on index economy account #010757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAX - Complies with DFARS 252.225-7014. - Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.



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CERTIFICATE OF CONFORMANCE

N° 6797

Date 08/07/2013

To:

B/E AEROSPACE INC. CONSUMABLES MANAG
9835 NW 14TH ST.
MIAMI - FL
USA

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos	Part Number	Purchase Order	Order Date	Quantity	U.M.	Batch	Cure Date Expiry Date
29	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
30	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
31	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
32	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
33	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
34	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
35	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
36	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
37	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	
38	MS21089L3 RELEASE W0170KJE83(Rev. REV1)	0KJE83	17/08/2012	10000	N	52472	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREMENT OF BAE/AG/SC1 PART 3 APPROVAL # BAE/AG/30631/MAX AND WITH AIRBUS SAS APPROVAL # 204788 - Se sotto 150 lbs speed on feder ground, account 80331-0149-0, mark collect; se sopra 150 lbs speed on feder economy, account 8018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAX - Complies with DFARS 252.225-7014. - Agusta-Westland Q500 approval # A/0047

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MOD. CERCON-03

Page 3 / 3

INVOICE NO.

16382	INVOICE DATE 15-Jan-90	TERMS SEE BELOW ORIGIN
SALES ORDER NO. 8669	CUSTOMER P.O. NUMBER E56798	PAGE NO. 1
SALESMAN 00019	PACKING SLIP NO.	WARRANTY NO. 25000

INVOICE

CUSTOMER
PLEASE REMIT TO:ALLFAST
FASTENING SYSTEMS.★

P.O. BOX 3166 - 15200 DON JULIAN ROAD
CITY OF INDUSTRY, CALIFORNIA 91746-1098
PHONE (818) 968-9388 - TWX 910-584-1815
TLX 262847 FAX 818-968-9363

BILL TO: LENTERN AIRCRAFT
MAIN ROAD HAWKWELL
N R HOCKLEY
ESSEX, ENGLAND SS5 4JJ

L.P.R. 961

TRACE OK

SHIP TO: LENTERN AIRCRAFT
MAIN ROAD HAWKWELL
N R HOCKLEY
ESSEX, ENGLAND SS5 4JJ

INCH CONTROL	ORDER DATE	BILL TO CUST. CO.	CERT/NO	TAX	TAX %	SHIP TO CUST. CO.	SHIP FROM	SHIP VIA	ACTUAL ROUTING
-Jan-90	27-Oct-89	00000462	4	N	0.00	00000462		SEE BELOW	WESTERN O/S
IN	SO LN	PART NUMBER	DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	BALANCE DUE	UNIT PRICE	AMOUNT	
	10	AE2550-6-6	NAS1738E6-6 D170753	5000	2756	0			
		31 6 MFG	P.O. ITEM #51		EA				
	12	AF6000-4-5	MS20600AD4W5 D170711 B28985	10000	10500	0			
		21 3 MFG	P.O. ITEM #53		EA				
	18	AF6001-4-6	MS20601AD4W6 D170762	5000	5250	0			
		21 3 MFG	P.O. ITEM #59 LOT B28984		EA				
REMARKS:									
SHIPPING TOLERANCE: +/-5%									
PKG: LINE ITEMS #1 THRU #10 - 100 EA PER PKG; #11 THRU #21 - 500 EA PER PKG. SHIP VIA: WESTERN OVERSEAS AIRFREIGHT. PAYMENT TERMS: NET 75 DAYS									
WARRANTY: Seller warrants that all goods covered by this invoice will conform to applicable specifications and drawings and that such goods will be free from defects in materials or workmanship. Said warranty to remain in effect if and only if such goods are used in accordance with all instructions as to maintenance, operation and use set forth in manuals and instruction sheets furnished by Seller. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Seller's obligation under this warranty shall be limited to the repair or replacement of the goods, or replacement thereof, at Seller's option, and in no case is to exceed the invoice value of said goods. Under no circumstances will Seller be liable for incidental or consequential damages or for damages incurred by the buyer or subsequent user in repairing or replacing defective goods or if goods covered by this warranty are resold or subjected to any type of additional processing. This warranty is void if Seller is not notified in writing of any rejection by a buyer within the time specified in the invoice.									
SUBTOTAL									
TAX									
SHIPPING CHG.									
TOTAL DUE									

CUSTOMER COPY 1

3

11

11

LETERN AIRCRAFT

ALLFAST FASTENING SYSTEMS, INC.

CERTIFICATION OF CONFORMANCE

DATE: JANUARY 16, 1990
PART NUMBER: MS20600AD4W5
LOT CONTROL NUMBER: 828985
DRAWING NUMBER: MS20600
SPECIFICATION NUMBER: MIL-R-7885
DELIVERY NOTE/
PACKING SLIP NUMBER: 34937
PURCHASE ORDER NUMBER: E56798
QUANTITY: 10,500 EA
REV. LETTER: G

Test reports of the material used in said items is on file and will be made available upon request.

THE UNDERSIGNED HEREBY CERTIFIES THE MATERIALS AND PROCESSING USED IN THE ITEM SHIPPED HERewith IS IN COMPLIANCE WITH ALL APPLICABLE GOVERNMENT SPECIFICATIONS. MATERIALS OF ALLFAST FASTENING SYSTEMS, INC. MANUFACTURE.

Approval Number: BAe/AG/3150/CAL

J. C.
QUALITY CONTROL MANAGER

AEROSPACE FASTENERS

15200 DON JULIAN RD., P.O. BOX 3166, CITY OF INDUSTRY, CA 91745 • (818) 968-9388 • TWX: 910-584-1815

INVOICE NO.

16382	PKY SHIP DATE 15-Jan-90	TERMS SEE BELOW ORIGIN
SALES ORDER NO. 8669	CUSTOMER P.O. NUMBER E56798	PAGE NO. 1
SALESMAN 00019	PACKING SLIP NO.	WARRANTY NO. 25000

INVOICE

CUSTOMER
PLEASE REMIT TO:ALLFAST
FASTENING SYSTEMS. ★

P.O. BOX 3186 - 15200 DON JULIAN ROAD
CITY OF INDUSTRY, CALIFORNIA 91745-1008
PHONE (818) 968-9388 - TWX 910-584-1815
TLX 262847 FAX 818-968-9393

BILL TO: LENTERN AIRCRAFT
MAIN ROAD HAWKWELL
N R HOCKLEY
ESSEX, ENGLAND SS5 4JJ

I.P.R. 961

TRACE OK

SHIP TO: LENTERN AIRCRAFT
MAIN ROAD HAWKWELL
N R HOCKLEY
ESSEX, ENGLAND SS5 4JJ

CHK CONTROL	ORDER DATE	BILL TO CUST CD	CERT/DIV	TAX	TAX %	SHIP TO CUST CD	SHIP FROM	SHIP VIA	ACTUAL ROUTING
1-Jan-90	27-Oct-89	00000462	4	N	0.00	00000462		SEE BELOW	WESTERN O/S
IN	SO LN	PART NUMBER	DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	BALANCE DUE	UNIT PRICE	AMOUNT	
	10	AE2550-6-6	NAS1738E6-6 D170753	5000	2756	0			
		31 6 MFG	P.O. ITEM #51		EA				
	12	AF6000-4-5	MS20600AD4W5 D170711 B28985	10000	10500	0			
		21 3 MFG	P.O. ITEM #53		EA				
	18	AF6001-4-6	MS20601AD4W6 D170762	5000	5250	0			
		21 3 MFG	P.O. ITEM #59 LOT B28984		EA				
REMARKS:									
SHIPPING TOLERANCE: +/-5%									
PKG: LINE ITEMS #1 THRU #10 - 100 EA PER PKG; #11 THRU #21 - 500 EA PER PKG. SHIP VIA: WESTERN OVERSEAS AIRFREIGHT. PAYMENT TERMS: NET 75 DAYS									
SUBTOTAL TAX SHIPPING CHG. TOTAL DUE									

WE HEREBY CERTIFY THAT ALL PROVISIONS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, HAVE BEEN FULLY COMPLIED WITH IN THE MANUFACTURE, PRODUCTION OR PURCHASE OF GOODS LISTED HEREON.

TERMS: 1% ten days, net thirty days, F.O.B. shipping point with transportation charges prepaid by seller to destinations within the Continental United States, via carrier of seller's choice.

On orders specifying premium transportation, the rate difference will be charged on the invoice.

All orders are shipped subject to strikes, riots, and other conditions beyond seller's control. All orders are subject to payment by the buyer of any sales tax or other tax, Federal, State, or local, levied thereon.

WARRANTY: Seller warrants that all goods covered by this invoice will conform to applicable specifications and drawings and that such goods will be free from defects in materials or workmanship. Said warranty is limited in effect to and only if such goods are used in accordance with all instructions as to maintenance, operation and use set forth in manuals and instruction sheets furnished by Seller. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Seller's obligation under this warranty shall be limited to the repair or replacement of the goods, subject to the replacement thereof, at Seller's option, and in no case is to exceed the invoice value of said goods. Under no circumstances will Seller be liable for consequential damages or for damages resulting from the buyer or subsequent user in repairing or replacing defective goods or if goods covered by this warranty are reshipped or subjected to any type of additional processing. This warranty is void if Seller is not notified in writing of any repairs or replacements within 90 days of the date of receipt of the goods.

CUSTOMER COPY 1

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LENTERN AIRCRAFT

ALLFAST FASTENING SYSTEMS, INC.

CERTIFICATION OF CONFORMANCE

DATE: JANUARY 16, 1990
PART NUMBER: MS20600AD4W5
LOT CONTROL NUMBER: 828985
DRAWING NUMBER: MS20600
SPECIFICATION NUMBER: MIL-R-7885
DELIVERY NOTE/
PACKING SLIP NUMBER: 34937
PURCHASE ORDER NUMBER: E56798
QUANTITY: 10,500 EA
REV. LETTER: G

Test reports of the material used in said items is on file and will be made available upon request.

THE UNDERSIGNED HEREBY CERTIFIES THE MATERIALS AND PROCESSING USED IN THE ITEM SHIPPED HERewith IS IN COMPLIANCE WITH ALL APPLICABLE GOVERNMENT SPECIFICATIONS. MATERIALS OF ALLFAST FASTENING SYSTEMS, INC. MANUFACTURE.

Approval Number: BAC/AG/3150/CAL

J. Car
QUALITY CONTROL MANAGER

AEROSPACE FASTENERS

15200 DON JULIAN RD., P.O. BOX 3166, CITY OF INDUSTRY, CA 91745 • (818) 968-9388 • TWX: 910-584-1815



B/E Aerospace, Inc.

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CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: B/E AEROSPACE, CHARLES AVENUE, BURGESS HILL, WEST SUSSEX RH15 9UF, UK

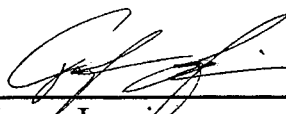
Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24532

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	500	EA	MS20600AD4W5		B28985	ALLFAST FASTENING	53551		


Jason Lewis
Vice President of Quality

06/11/14